

SUJAY DUTTA

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github.com/sujaydutta | tinyurl.com/innovation-portfolio | 2X AWS Certified | PMP | MIT

SENIOR ENGINEERING / ARCHIECTURE/ PRODUCT LEADER

Seasoned FinTech leader with a proven track record of leading cross-functional, globally distributed teams, delivering impactful enterprise-scale solutions. Skilled in managing large-scale projects, overseeing end-to-end technology delivery, and interfacing with senior business executives. Leverage expertise in tech leadership to drive strategic growth and innovation in the FinTech, Embedded Finance, Higher Ed and Innovation space. Expertise in BaaS, CaaS, Cryptos. Experienced in building 0-1 and 1:N cloud native scalable products.

AREAS OF EXPERTISE

Engineering Manager | Architecture | Product Manager | Technology Strategy | Team Leadership | Software Design & Delivery | Roadmap development | Agile/Scrum methodologies | Decision Making | Geographically distributed team management | Customer Empathy | Production Support | Continuous Learning | Stakeholder management | Vendor negotiations | M&A Tech Due Diligence | Innovation

Microsoft AI Foundry | Mastra AI | AWS Bedrock | Angular | Java | Spring | Python | Azure SQL | Oracle | PostgreSQL | Terraform | Banking | Cards | Payments | Crypto | Blockchain | Azure/AWS | AI/ML | Containers | DevOps

EXPERIENCE

Illumia Tech - Exton, PA – Sr. Director Architecture

3/2025 – 4/2026

Architecture vision and modernization efforts in the Higher Education, Healthcare and Corporate space.

- Managed a team of 5 Sr. Staff Architects embedded across product verticals across Higher Ed and Healthcare, while interfacing with the product/engineering leads.
- Regularly presented at monthly Architecture/Platform/Security pulse meetings to Engineering Managers.
- Drove the direction of menu sync integration across dining service providers (NetMenu and Centric OS) to Quickcharge and Cloud POS product lines utilizing a highly scalable central integration layer built on Node-Red, AKS, Event Grid.
- Drove the architecture direction for RAG based smart assistant for the Healthcare LOB.
- Responsible for certification of third-party risk (external tools and vendors) in Auditboard tool along with Infosec.
- Rolled out GitHub Copilot as the Gen AI tool across the Engineering organization. Other tools/platforms such as Claude, Codex, MS Foundry, AWS Bedrock were also available to BUs as needed.
- Guide various verticals for Higher Ed, Senior Living run highly scalable workloads across Azure and AWS utilizing .Net, Java, Angular native app stacks, utilizing Kubernetes, Events, Managed databases.
- Introduced light weight architecture governance process using Architecture Decision Records (ADRs).
- Stack: Higher Ed solutions such as Campus Commerce, Integrated Payments, Campus ID utilized Azure platform with Angular, native apps, Azure SQL, CosmosDB, AKS and Healthcare/Senior Living solutions such as NetMenu, Quickcharge utilized AWS ecosystem with a mix of modern and legacy stacks; data insights platform utilized Databricks/PowerBI. Was responsible for modernization related efforts and also consolidating data from all systems across clouds into Databricks. In terms of scale, on the Higher Ed side, the solutions handles 12MM+ students across 2K institutions with peak loads of 210K TPS. Overall 10K+ organizations served.

Atelio by FIS - Exton, PA – Director Platform Engineering

8/2022 – 11/2024

Led Embedded Finance related initiatives for BaaS, CaaS, WaaS, Portals

- Led the buildout of the strategic and core agnostic Embedded Finance (EF) platform to create a simpler, scalable APIs by delivering four enterprise projects with a cost of \$10MM. Banking as a Service, Cards as Service, Crypto as a Service were delivered. Was responsible for overall strategy, execution, and delivery. Grew the team from 8 to 80 cross functional team members spread across USA, Peru, UK and India. Platform was built in a core agnostic way so additional backend cores/providers could be added seamlessly. Delivered the APIs successfully for FIS to launch more innovative solutions to the market in the \$84B Embedded Finance space.
- Managed the \$20MM Embedded Finance Orchestration System (EFOS) program for WorldPay in collaboration with McKinsey. Grew the team to 25 cross functional team members. Was responsible for the tech stack, architecture. This platform enables WorldPay to offer various solutions to the ISVs including virtual cards, merchant deposits, rewards, pre-approved unsecured loans, and instant settlement options, the solution was designed in a platform agnostic way for various EF providers to be integrated seamlessly.
- Responsible for the support and maintenance of the Production Operations Portal used to address critical client issues. Oversaw triage and support processes, stakeholder management, hiring, roadmap management, vendor negotiations.
- Re-architected a novel envelope encryption service that significantly improved performance and reduced costs. This solution utilized AWS KMS over the prior Very Good Security service and was used for Account number encryption among others, resulting in dramatic decrease in latency from 300ms to 11ms.

FIS Global, Inc. - Collegeville, PA – Director Tech Strategy

4/2017 – 8/2022

Led Digital Transformation and Innovation initiatives within CTDO org.

- Led various modernization initiatives aimed at enhancing developer productivity and collaboration, launching Idea Hub, Developer Network, Cloud IDE, Enterprise Stack Overflow, LCD tools, leading to 10x productivity.
- Directed the implementation of Bitcoin buy/sell/hold integration within the Digital One mobile platform, partnering with NYDIG as the custodian to facilitate secure transactions.
- Contributed to FIS/McKinsey “north star” vision of Modern Financial Platform with pre-selected modular blocks from products across banking, payments, merchant services, and capital markets, to help accelerate solution deployment, unlock new revenue streams, and improve cross-selling opportunities.
- Deployed an enterprise-level chatbot on the AWS cloud utilizing a native stack and Infrastructure as Code (IaC) for DevOps automation. This implementation facilitated faster information retrieval for both employees and clients, leading to an improvement in the company’s Net Promoter Scores (NPS). The chatbot was integrated internally for the entire 60K employee base and also within the FIS Client Portal.
- Mentored team to victory at the FIS InnovateIn48 global hackathon in 2021, competing against over 500 teams and 2,500 participants from 5 regions. Additionally, participated in the FIS Client hackathon, where solution received significant praise, leading to its inclusion in a [FIS marketing video](#).
- Drove the development and rollout of highly scalable, Azure cloud native Enterprise Notifications Hub (ENH) to centralize notifications from various corporate systems for delivery of actionable and informational notifications. About 20+ corporate systems (Password Reset, Workday, Access Reviews, Regulatory courses, Timesheets etc.) are currently integrated. System is used by over 70,000 employees worldwide across 58 countries and significantly enhancing employee satisfaction by 10-fold.
- Migrated Target retail chain’s eZCard email provider to AWS SES in a week’s time, resolving the issues with missed SLAs with high volume emails (500K+ daily) with previous provider, thereby resulting in a very satisfied client and kudos.
- Developed a Network Terraform Provider using Golang, which automated on-prem network tasks such as IP management, firewall configuration, and load balancing, enhancing operational efficiency.

FIS Global, Inc. - Collegeville, PA – Development Manager

6/2013 - 4/2017

Led a skunkworks team building various innovative POCs showcasing thought leadership.

- Formed an Emerging Technology Innovation skunkworks practice with a small team to keep an eye on the leading emerging technologies and create polished thought provoking POCs in areas from Blockchain, AI/ML, AR/VR, NFC payments, Biometric Authentication, Cloud Native, Web 3 among others. These were used to educate internal employees and product managers and also presented at various client conferences to show thought leadership.
- Led strategy meetings with executive stakeholders to integrate new technologies, enhance product offerings and foster development of innovative product concepts aligning with goals and driving forward-thinking solutions.
- Partnered with Innovation Labs located in San Francisco, London, Bangalore, Bangkok, and New York City to foster collaboration and share insights on technological advancements, leveraging diverse expertise and resources across global hubs, enhancing innovation and driving development of cutting-edge financial solutions.
- Led the team in developing proof of concepts using emerging technologies such as Blockchain, AR/VR, and Biometric Authentication, aligning with Gartner Hype Cycle, to explore innovative solutions and assess maturity and potential impact of these technologies on product offerings.
- Developed proof of concepts (POCs) that educated product and engineering staff, and clients, during FIS Annual Conferences. These POCs enhanced understanding of emerging technologies and their potential applications within the financial services sector.
- Presented at annual client conferences held globally in Florida, Rome, Sydney, and Manila, sharing insights and advancements in financial technology with a diverse audience of clients and stakeholders, enhancing understanding of FIS's innovative solutions and fostering collaboration within the industry.

FIS Global, Inc. - Malvern, PA – IT Architect Specialist

3/2010 - 6/2013

- Led the architecture and web modernization efforts for Profile banking core web applications. Build the account origination solution from scratch, grew the team to 40 cross functional team members and successfully rolled out to multiple clients such as Amex Personal Savings, BMO.

Additional Relevant Experience

PMG Systems (acquired by FIS), Malvern, PA, Sr. Software Engineer

- Oversaw product enhancements and the launch of products related to TruABC, TruProductOrg, Touch Point, Business Intelligence, and Profile Web Client/WebCSR/Teller.

Aris Global, Bangalore, India, Engineering Lead

- Led engineering efforts related to pharmaceutical products for clinical trials management, adverse event reporting, and product information and packaging, specifically tailored to meet regulatory requirements and market needs of the US and EU markets. Presented at various client locations across Frankfurt and Munich leading to closing several sales deals.

EDUCATION

MBA (in pursuit) Amity University
Bachelor of Science (BS) - Mathematics, Physics,
Electronics
Bangalore University

CERTIFICATIONS

AWS Certified Solution Architect Associate | AWS
Certified Cloud Practitioner | MIT Digital
Transformation AI, IoT, Blockchain, Cybersecurity |
Wharton FinTech Foundations, Payments &
Regulations | PMP Certification | Penn State Project
Management Certificate