

Navid Nafuazzaman

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Experience

Capital One

Feb 2022 – Present

Senior Software Engineer

New York, NY

- Replatformed **SWIFT Alliance Access, Swift Alliance Gateway, and SNL** from a legacy datacenter to AWS infrastructure without incurring license costs, cutting deployment time by **90%**
- Leveraged SWIFT migration experience to move the **Payment Infrastructure Engine (FiServ)** to the cloud, ensuring regulatory compliance and introducing a continuous deployment pipeline
- Reduced engineering hours required for maintaining IAM Roles, Security Groups, and ECS rehydrations by **70%** by automating pipeline features using **Terraform** and **CloudFormation**.
- Developed over 50 **Ansible Playbooks and Roles** to automate deployment of applications in AWS
- Improved application resiliency and monitoring by implementing log captures via Splunk, OTEL, and New Relic, enabling the team to identify issues early and maintain **zero downtime**.
- Migrated **AWS Lambda, EC2 & ECS** from x86 to **Graviton (ARM)**, resulting in over **30%** overall cloud cost savings.
- Maintained **Platinum Status** with **99.87% uptime** for an internal observability app by automating fail-over
- Engineered a solution to automatically set threshold values for New Relic alerts, saving over **30,000** hours per year.

Deutsche Bank

June 2019 – Aug 2020

Software Engineering Intern

Raleigh, NC

- Engineered microservices for the Global Depository Receipts (GDR) Platform using React and Spring Boot (Java) to process **\$50M+** in Depository Receipt transactions daily.
- **Developed** an interactive onboarding guide for dev-test environment setups across EMEA and Americas regions, saving **20+ hours** per person and increasing initial efficiency by **8.3%**.
- Received **Developer Award** for building Crypto Currency Sentiment Analysis application adapted by the enterprise to venture into new Fintech Product space.

Projects

Bill Splitter | React Native, Python, Google Cloud Vision, Firebase

- Engineered a cross-platform mobile application using **React Native** and **Firebase**, enabling seamless user authentication and real-time data synchronization.
- Architected an OCR pipeline using **Python** and **Google Cloud Vision API** to extract and parse line-item data from physical receipts with high accuracy.
- Integrated payment gateways via **Venmo (Braintree)** and **Square APIs**, allowing users to execute peer-to-peer transactions directly within the application.
- Streamlined the bill-splitting UX by automating the transition from image capture to digital debt distribution, reducing manual entry time for users by **80%**.

Education

Rochester Institute of Technology

Dec 2021

B.Sc Computer Science

Relevant Courses: Analysis of Algorithm, Principles of Data Management, Principles of Data Mining, Data Cleaning & Preparation, Intro to AI, Social Network & Visualization

Technical Skills

Languages: Python, Java, TypeScript, JavaScript, SQL, Rust

Frameworks: Flask, Angular, React, Next.js, Node.js, Spring Boot

Libraries/AI/ML: PyTorch, Pandas, NumPy

Databases & Platforms: PostgreSQL, OracleDB, DynamoDB, AWS Time-Stream, Snowflake

Developer Tools: Docker, NewRelic, Splunk, Databricks, Git, Jenkins, Postman, VS Code, IntelliJ, Vim

Certifications: AWS Certified Solution Architect - Associate, AWS Certified Developer - Associate