

EXPERIENCE

Software Engineer II

Feb 2024 - Present

American Express

New York, NY

- Integrated OpenAI's APIs into an internal search platform used by all American Express Employees, allowing them to search and retrieve internal documentation using natural language queries
- Developed a Spring Boot API with advanced SQL queries to automate bulk shipping label generation—saving over 1200 engineering hours per month
- Engineered an all-in-one support platform that integrates chatbot assistance, scheduling, and FAQ searches, resulting in over 115K daily views and significantly enhanced colleague support
- Utilized Jakarta Mail to develop an email and push notification platform that delivers real-time updates to colleagues about the products and services they have ordered on a scheduled basis using Cron jobs
- Built a reservation and availability system using Kotlin, Ktor, and Exposed for Microsoft SQL Server, enabling users to reserve devices for meetings, track attendance, and receive detailed end-of-day reports with key metrics
- Created and integrated a scalable module using React and Redux for consistent error and downtime messages across a critical application used by all American Express employees, enhancing user experience and streamlining error handling
- Designed and implemented RESTful APIs using Spring Boot and Swagger for documentation, facilitating seamless integration with third-party services and improving data accessibility across platforms

Software Engineer III

Aug 2022 - Feb 2024

American Express

New York, NY

- Collaborated with UX, product, and QA teams to develop an application automating internal event and room reservations, simplifying the user journey and reducing workflow by over 40%
- Integrated with Slack API to create an app which enabled hiring managers to manage direct reports and their email group memberships, thereby eliminating manual effort and enhancing workflow efficiency by 60%
- Created GitHub Actions workflows for multiple projects, designing and configuring workflow YAML files to improve CI/CD processes
- Orchestrated deployments to internal cloud platforms with manual and automated releases, improving deployment efficiency
- Led the initiative to enable authentication and authorization on backend routes, collaborating with various engineering organizations to establish a security standard for future projects
- Spearheaded the migration of applications to a new cloud platform, achieving 99.9% availability and uptime

PROJECTS

Fares Floral | TypeScript, Next.js, MongoDB, Redis, Vercel

- Launched a flower and bouquet e-commerce platform catering to custom-made orders, resulting in a 74% increase in sales compared to the legacy form system and generated \$8,743 in revenue
- Improved front-end performance by implementing Redis caching on critical store and product pages
- Integrated Stripe to enable secure and seamless payment processing for customer transactions
- Designed and implemented an admin dashboard to manage inventory, allowing image uploads and storage in AWS S3
- Built a logistics system for drivers, enabling efficient delivery management and photo uploads for proof of delivery

Slekto | TypeScript, Node.js, Next.js, MongoDB, AWS, Vercel

- Developed a full-stack application using TypeScript, Node.js, MongoDB, and Next.js, with the frontend deployed on Vercel, to scrape Amazon's deal pages and user search queries, displaying the top 10 products with embedded referral links to enhance affiliate revenue opportunities
- Automated the web scraping of Amazon using Cron, with the scraping process implemented through Cheerio, to retrieve product images, reviews, and descriptions, storing the data in a MongoDB database
- Deployed the backend on an AWS EC2 instance, configuring the server environment to enhance the scalability and reliability of the application's server-side operations

TECHNICAL SKILLS

Languages: Java, Python, C++, Kotlin, JavaScript, TypeScript

Frameworks/Libraries/Tools: React, Node.js, Django, Spring, Git, PostgreSQL, Microsoft SQL Server

DevOps & CI/CD: Jenkins, Gradle, Docker

EDUCATION

New Jersey Institute of Technology

May 2022

Bachelor of Science in Computer Science

Newark, NJ

Honors: Magna Cum Laude