

# Saad Rasheed

SOFTWARE ENGINEER

Chicago, IL USA

☎ (224) 258-2804 | ✉ saarasheed@outlook.com | 🏠 www.saadrasheed.com | 📷 srashee

## Summary

Full-stack Software Engineer with 8+ years of experience designing high-scale customer-facing applications and developer tooling that reduces operational overhead. Proven track record of delivering performant solutions at scale (millions of requests/min), automating pipelines to reduce build times 80%, and enhancing security posture across enterprise systems. Passionate about performance, simplicity, and scale.

## Work Experience

**Zoro**  
SENIOR SOFTWARE ENGINEER

Account Management  
Sep 2025 - Present

- Fixed a critical issue in order history caused by a race condition and incorrect timestamp handling, ensuring proper order display for users.
- Led the migration of multiple Bitbucket repositories to GitHub, introducing GitHub-native enhancements such as Dependabot while maintaining existing CI/CD workflows for build, test, and deployment.
- Implemented a Swagger-based debug controller to streamline endpoint testing across local and test environments.

**Indeed**  
SOFTWARE ENGINEER II

Company Pages  
May 2022 - Sep 2025

- Implemented middleware APIs and integrated Cloudflare Turnstile at backend entry points to mitigate automated abuse, reducing bot traffic by 90% and improving data integrity for reporting
- Integrated AWS SageMaker neural net trained on user generated content in our content flow reducing human moderation & saving \$435k a year
- Designed and maintained microservices using Java (Spring Boot), TypeScript, NodeJS and Kotlin, operating at scale, handling millions of requests per minute with 99.99% uptime.
- Engineered a robust data pipeline using Apache Spark, Kubernetes, and RabbitMQ to support real-time and batch data processing.
- Modernized CI/CD by migrating from Jenkins to GitHub Actions, cutting build times by 80% and accelerating release cycles by 3x, saving over 100 engineering hours per month.

**Accenture**  
SENIOR SOFTWARE CONSULTANT

Industry X  
Apr 2021 - May 2022

- Designed and delivered Node.js/TypeScript RESTful APIs and middleware services powering customer facing experiences.
- Built automated fault tolerant deployment tooling, reducing SFRA production incidents by 30% and cutting downtime to near-zero.
- Scaled out a Smart City data ingestion pipeline in Kubernetes supporting 2,000 datasets, 67,000 data queries, 220,000 downloads and 209 visualizations.

**Motorola Solutions**  
SOFTWARE ENGINEER

Secure Products Group  
Jan 2018 - Apr 2021

- Designed and implemented encryption software and security in C, C++ and Assembly building features for the APX Next two-way radio, helping ensure NIST compliance for public safety devices.
- Led architecture and development of an embedded device automation pipeline, supporting CI/CD for 10+ hardware projects, increasing QA throughput by 60% and reducing manual test effort.

**ASSOCIATE SOFTWARE ENGINEER**

- Developed a real-time feature using TCP/UDP protocols in C and C++ for the Motorola GRV Comparator, enhancing radio resiliency and failover support in the field.
- Architected and built automated infrastructure and tooling for embedded devices integrating Azure Gov Cloud & Azure Key Vault

## Education

**University of Illinois Urbana-Champaign**  
M.S IN COMPUTER SCIENCE

Urbana-Champaign, Illinois  
2019 - 2022

**Northern Illinois University**  
B.S IN COMPUTER SCIENCE

Dekalb, Illinois  
2015 - 2017

## Skills

**</> Languages:** Typescript, Javascript, Java, C, C++, Python, Go, Swift, SQL, Haskell, Solidity, HTML, CSS, Bash

**Tools:** NodeJS, Git, Docker, GDB, Spring Boot, React, Vue, Fastify, React Native, MongoDB, Electron, ARM debugger, npm, Clearcase, Jenkins, Github Actions, Gitlab CI, Docker, Kubernetes, Helm, Terraform, Artifactory, Conan, PlatformIO, MicroPython, Jupyter, AWS, CMake, EKS, EC2, PostgreSQL, PrestoDB, NextJS, Vite, GraphQL, Typescript, Apollo, gRPC, Mocha, Cypress, Storybook and SFRA

**⚙️ Embedded:** Arduino, PlatformIO, ESP32, GPIO, USB, Serial, RS232, and SPI Interfaces

**🔒 Security:** Experience working with encryption algorithms, CIS20 Controls, Okta CIAM, Account Management and OWASP Top 10

**🌟 Certifications:** AWS Certified Developer - Associate (2024 - 2027) & AWS Certified DevOps Engineer – Professional (2025 - 2028)

# Projects

<b>Coin Recruiter</b> SOLANA JOB BOARD <ul style="list-style-type: none"><li>Built a escrow based job board based on transparency, equity and smart contracts.</li><li>Vue SSR Fastify application that allows you to post jobs and apply with Blockchain history and a custom Solana program for job accounts.</li></ul>	<i>coinrecruiter.com</i> <i>August. 2025</i>
<b>ESP32 Phillips Hue Controller</b> ESP32-2432S028R <ul style="list-style-type: none"><li>Built a hue controller for my smart lights using a off the shelf ESP32 touch screen.</li><li>Implemented LVGL to create a colorwheel to select hue, saturation and brightness and templated scenes from the touch screen.</li></ul>	<i>Hue Controller</i> <i>March. 2024</i>
<b>Strategy Backtesting Bot</b> PYTHON FINANCIAL SYSTEM <ul style="list-style-type: none"><li>Built a Python trading bot that would backtrack and run applications to predict buy, hold and sell positions.</li><li>Using Github actions, my trading system regularly refreshes pricing data with yfinance and backtests strategies such as DCF, Ben Graham's Formula, Linear Regression, Neural Net, RSI and MA delta</li></ul>	<i>Python</i> <i>August. 2023-Present</i>
<b>Chicago Photo Portfolio</b> PHOTOGRAPHY <ul style="list-style-type: none"><li>Chicago Street Photography</li><li>Built a responsive photo portfolio using NextJS + Cloudinary, optimized for high-res rendering of 100+ images, improving load speed by 60%.</li></ul>	<i>photography.saadrasheed.com</i> <i>Jan. 2022 - Present</i>
<b>Clear Head</b> FULL STACK APPLICATION <ul style="list-style-type: none"><li>Building a full stack application that centralizes your day to day allowing you to have a clear head.</li><li>Features a document editor, document file browser, kanban board, diagram editor, canvas image editor and more.</li><li>Leveraging technologies such as NextJS, TypeScript, Express, Apollo, GraphQL, Prisma, and PostgreSQL.</li></ul>	<i>Productivity</i> <i>Jan. 2022 - Aug. 2024</i>
<b>SFCC-CI DevOps Fork</b> OPEN SOURCE DEVELOPMENT <ul style="list-style-type: none"><li>Forked an established Salesforce CI tool to make changes to support DevOps work on a client project.</li><li>Modified SFCC-CI to allow for data package uploads through the CLI.</li><li>Successfully integrated forked version of the tool with production changes which continues to be used after my departure.</li></ul>	<i>SFCC-CI</i> <i>Jan. 2022 - Feb. 2022</i>
<b>Motorola YPG SCH</b> SOCIAL BRANCH LEAD <ul style="list-style-type: none"><li>Led cross-functional events strategy for Motorola's young professionals, increasing engagement 3x with 500+ attendees, driving culture and retention during pandemic.</li></ul>	<i>Motorola Solutions</i> <i>Jan. 2020 - Apr 2021</i>
<b>Causal Data Mining</b> ITERATIVE TOPIC MODELING WITH TIME SERIES FEEDBACK <ul style="list-style-type: none"><li>Worked with a team to develop a system in Python to analyze historical data and build graphical associations with historical events.</li><li>The project and code is an open-sourced research project available for viewing.</li></ul>	<i>CS410: Text Information Systems</i> <i>October 2020</i>
<b>Google Extension</b> MINIMALIST <ul style="list-style-type: none"><li>Developed and maintain a minimal note taking application for Google Chrome.</li><li>Available for download in the Google Chrome Store.</li></ul>	<i>Google Chrome Store</i> <i>Feb. 2019 - Jan. 2024</i>
<b>ACM WCS Mentorship Program</b> MENTOR <ul style="list-style-type: none"><li>Mentored an Ungraduate Computer Science student.</li><li>Met virtually on a regular cadence to help matriculation during the COVID 19 Pandemic.</li></ul>	<i>University of Illinois at UC</i> <i>May. 2020</i>
<b>Motorola Hackathon</b> TECHNICAL ENABLEMENT LEAD <ul style="list-style-type: none"><li>Led a team to setup required technical infrastructure for hackathon, hosting approximately 100 participants.</li><li>Team enabled participants to use GitLab, GitHub, and cloud instances alongside proprietary Motorola hardware.</li></ul>	<i>Schaumburg, Illinois</i> <i>Jan. 2019 - Apr. 2019</i>
<b>iOS Application</b> UNIBOARD <ul style="list-style-type: none"><li>Developed a social media iOS application in Swift 3 that allowed university students to sign up and communicate publicly through posts and images.</li><li>Used Firebase for the back-end and data store to allow users to comment and like other user's posts.</li></ul>	<i>Northern Illinois University</i> <i>Dec. 2016 - Feb. 2018</i>
<b>Portfolio Website</b> DEVELOPER <ul style="list-style-type: none"><li>Redesigned in 2024 with NextJS and ThreeJS serving links about me and binary art.</li><li>Created a website hosted on Github Pages and using HTML/CSS/JS for the frontend.</li><li>Used to display my portfolio, work experience, contact details and a downloadable resume pdf.</li></ul>	<i>saadrasheed.com</i> <i>Dec. 2016 - Present</i>