Saad Rasheed

SOFTWARE ENGINEER

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Summary

I'm currently a Software Engineer at Indeed writing customer facing full stack applications. I'm currently working with React, Java and PostgreSQL. I'm passionate about building, tinkering and making things better. I have experience developing on embedded systems, cloud technologies and machine learning platforms.

Work Experience

Indeed
Indeed.com Company Pages

SOFTWARE ENGINEER II — *May 2022 - Present*

- Migrated legacy Jenkins automation infrastructure to serverless Github Actions suite which resulted in concurrent automated tasks, 5x faster build times and centralized development.
- Mentored, assisted and helped grow junior Indeed engineers and an offshore development team.
- Resolved critical infrastructure issues which resulted in successfully migrating to AWS.
- Architected and developed many customer facing features for applicant tracking systems

Accenture
Industry X

SENIOR SOFTWARE ENGINEER — *Apr 2021 - May 2022*

- Leader on a team to contribute and build a greenfield healthcare e-commerce solution which led to quick market feedback for a large retailer.
- Built automated tooling and HIPAA compliant full-stack applications using Salesforce solutions which resulted in fault tolerant and automated Salesforce deployments.
- Scaled out a Smart City data ingestion pipeline while managing and developing multiple micro services in Kubernetes.

Motorola Solutions
Secure Products Group

SOFTWARE ENGINEER II — *Jan 2018 - Apr 2021*

- Developed encryption software and security related features for the Motorola's next generation radio, APX NEXT.
- Developed software across multiple teams across multiple countries and built solutions for cross team development.
- Architected and developed automation pipeline for embedded devices, enabling automated QA, deployments and testing.

SOFTWARE ENGINEER I

- Worked on a security feature for the Motorola GRV Comparator.
- Developed test code for IoT TCP/UDP devices in C.
- Helped design and build automated infrastructure and tooling for embedded devices.

Education

University of Illinois Urbana-Champaign
Urbana-Champaign, Illinois

M.S IN COMPUTER SCIENCE — *2019 - 2022*

- Relevant Courses: Distributed Systems (Cloud Computing), Parallel Programming, Theory and Practice of Data Cleaning, Text Information Systems, Foundations of Data Curation, Programming Languages & Compilers, Applied Machine Learning & Deep Learning for Healthcare.

Northern Illinois University
Dekalb, Illinois

B.S IN COMPUTER SCIENCE — *2015 - 2017*

- Distinction: Cum Laude
- Relevant Courses: Data Structures, Algorithms, UNIX, Networking, Databases, iOS Mobile Programming, Assembler Mainframe, Java, Operating Systems, Computer Architecture and Systems

Skills

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

Tools: Git, Docker, GDB, Spring Boot, React, React Native, Electron, ARM debugger, npm, Clearcase, Jenkins, Github Actions, Docker, Kubernetes, Helm, Terraform, Artifactory, Conan, Jupyter, AWS, CMake, EKS, EC2, PostgresSQL, PrestoDB, NextJS, Vite, Vue, GraphQL, Typescript, Apollo, gRPC and SFRA

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

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

🚀 **Hobbies**: Building & Flying FPV Drones, Photography, 3D Printing & Chess

Projects

Clear Head   *clrhead.com*

FULL STACK APPLICATION   *Jan. 2022 - Present*

- Building a full stack application that centralizes your day to day allowing you to have a clear head.
- Built with NextJS, Typescript, Express, Apollo, GraphQL, Prisma and PostgreSQL

Motorola YPG SCH   *Motorola Solutions*

SOCIAL BRANCH LEAD   *Jan. 2020 - Apr 2021*

- Led a team to setup events for Motorola social events.
- Event planning for virtual events during the pandemic.
- Event planning for social in-person events for 500 attendants.

Causal Data Mining   *CS410: Text Information Systems*

ITERATIVE TOPIC MODELING WITH TIME SERIES FEEDBACK   *October 2020*

- Worked with a team to develop a system in Python to analyze historical data and build graphical associations with historical events.
- The project and code is an open-sourced research project available for viewing.

Google Extension   *Google Chrome Store*

MINIMALIST   *Feb. 2019 - Present*

- Developed and maintain a minimal note taking application for Google Chrome.
- Available for download in the Google Chrome Store.

ACM WCS Mentorship Program   *University of Illinois at UC*

MENTOR   *May. 2020*

- Mentored an Ungraduate Computer Science student.
- Met virtually on a regular cadence to help matriculation during the COVID 19 Pandemic.

Motorola Hackathon   *Schaumburg, Illinois*

TECHNICAL ENABLEMENT LEAD   *Jan. 2019 - Apr. 2019*

- Led a team to setup required technical infrastructure for hackathon, hosting approximately 100 participants.
- Team enabled participants to use GitLab, GitHub, Cloud Instances alongside proprietary Motorola hardware.

iOS Application   *Northern Illinois University*

UNIBOARD   *Dec. 2016 - Feb. 2018*

- Developed a social media iOS application in Swift 3 that allowed university students to sign up and communicate publicly through posts and images.
- Used Firebase for the back-end and data store to allow users to comment and like other user's posts.