Saad Rasheed

SOFTWARE ENGINEER

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Summary

As a Software Engineer at Indeed, my focus revolves around developing customer-facing full stack applications at scale. Currently, I'm deeply engaged with React, Java, and NodeJS, relishing the challenges they bring. Passionate about continuous improvement, I thrive on building, tinkering, and enhancing systems. My background includes hands-on experience in automation, embedded systems and cloud development.

Work Experience

Indeed   *Indeed.com Company Pages*

SOFTWARE ENGINEER II   *May 2022 - Present*

- Proficient in Node.js, React, and Java for developing RESTful APIs, customer-facing frontends, and scalable distributed data systems.
- Automation Lead - Migrated legacy Jenkins automation infrastructure to serverless Github Actions suite which resulted in concurrent automated tasks, reduced build times from 25 minutes to 5 minutes and centralized development.
- Mentored, assisted and helped grow junior Indeed engineers and an offshore development team.
- Architected and developed customer facing features for applicant tracking systems on Kubernetes infrastructure for millions (100k/min +) of concurrent requests.

Accenture   *Industry X*

SENIOR SOFTWARE ENGINEER   *Apr 2021 - May 2022*

- Skilled in utilizing Node.js, React, and Java to craft RESTful APIs, customer-centric frontends, and robust distributed data systems.
- Built automated fault tolerant tooling for SFRA deployments and developed HIPAA compliant full-stack applications.
- 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

- Developed a security feature for the Motorola GRV Comparator using TCP/UDP protocols in C.
- Architected and built automated infrastructure and tooling for embedded devices integrating Azure Gov Cloud & Azure Key Vault

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*

- 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: NodeJS, Git, Docker, GDB, Spring Boot, React, React Native, Electron, ARM debugger, npm, Clearcase, Jenkins, Github Actions, Gitlab CI, Docker, Kubernetes, Helm, Terraform, Artifactory, Conan, PlatformIO, MicroPython, Jupyter, AWS, CMake, EKS, EC2, PostgresSQL, PrestoDB, NextJS, Vite, Vue, 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 and OWASP Top 10

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

Projects

ESP32 Phillips Hue Controller
Hue Controller

ESP32-2432S028R
March. 2024

- Built a hue controller for my smart lights using a off the shelf ESP32 touch screen.
- Implemented LVGL to create a colorwheel to select hue, saturation and brightness and templated scenes from the touch screen.

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.
- Features a document editor, document file browser, kanban board, diagram editor, canvas image editor and more.
- Leveraging technologies such as NextJS, TypeScript, Express, Apollo, GraphQL, Prisma, and PostgreSQL.

SFCC-CI DevOps Fork
SFCC-CI

OPEN SOURCE DEVELOPMENT
Jan. 2022 - Feb. 2022

- Forked an established Salesforce CI tool to make changes to support DevOps work on a client project.
- Modified SFCC-CI to allow for data package uploads through the CI.
- Successfully integrated forked version of the tool with production changes which continues to be used after my departure.

Motorola YPG SCH
Motorola Solutions

SOCIAL BRANCH LEAD
Jan. 2020 - Apr 2021

- Innovated event strategies, transitioning seamlessly to virtual formats during the pandemic.
- Successfully coordinated large-scale, in-person social gatherings, accommodating up to 500 attendees.

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 - Jan. 2024

- 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, and 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.

Portfolio Website
rasheedsaad.com

DEVELOPER
Dec. 2016 - Feb. 2018

- Created a website hosted on Github Pages and using HTML/CSS/JS for the frontend.
- Used to display my portfolio, work experience, contact details and a downloadable resume pdf.