

# Saad Rasheed

SOFTWARE ENGINEER

Chicago, IL USA

☎ (224) 258-2804 | ✉ [contact@rasheedsaad.com](mailto:contact@rasheedsaad.com) | 🏠 [www.rasheedsaad.com](http://www.rasheedsaad.com) | 📷 [srashee](#)

## Summary

I'm currently a Software Artisan at Accenture writing customer facing full stack applications. I'm passionate about building, tinkering and making things better. I have experience developing on embedded systems, cloud technologies and machine learning platforms. I'm also attending University of Illinois at Urbana-Champaign for Computer Science part time.

## Work Experience

### Accenture

SENIOR SOFTWARE ENGINEER

Industry X

Apr 2021 - Present

- Scaled out a Smart City data ingestion pipeline using AWS, Terraform, Kubernetes and Helm.
- Built websocket, front-end and back-end applications in Typescript, Node and React
- Deployed microservice based web application that uses Elixir, Docker, Kafka, Redis, Elasticsearch, Postgres, Presto, NodeJS and Vault.
- Built automated tooling and HIPAA compliant full-stack applications using Node, Javascript and SFRA

### 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. Developed software across multiple teams across multiple countries and built solutions for cross team development.
- Developed and tested features for public safety related infrastructure.

SOFTWARE ENGINEER I

- Developed test code for IoT TCP/UDP Servers in C that allowed for automated testing in an embedded environment.
- 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 - Present

- Relevant Courses: Distributed Systems (Cloud Computing), Parallel Programming, Theory and Practice of Data Cleaning, Text Information Systems and 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:** C, C++, Python, Swift, SQL, Haskell, Javascript, YAML, and Scripting(Shell, PS1, Batch)
-  **Tools:** Git, Docker, GDB, ARM debugger, npm, Clearcase, Jenkins, Github Actions, Docker, Kubernetes, Helm, Terraform, Artifactory, Conan, Jupyter, AWS, CMake, EKS, EC2, and SFRA
-  **Platforms:** AWS, Azure, Windows, Linux, ARM, RHEL and Salesforce Commerce Cloud
-  **Embedded:** GPIO, USB, Serial, RS232, and SPI Interfaces
-  **Security:** Experience working with encryption algorithms, key management and general understanding of web security
-  **Testing:** Test-Driven Development (TDD), Behavior-Driven Development (BDD), PyTest, Selenium, Jest, Mocha, Chai

# Projects

---

## 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.