MUHAMMAD ALAM

Software Engineer

- Charlotte, NC
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Activities

- **Pursuit Technical Mentor** – Volunteering regularly at hackathons and project sessions to provide mentorship and instruction to students learning web development and programming
- **Operation Code** – Nonprofit focused on transitioning veterans into the tech industry
- **Flushing Tech Meetup** – Organizer of group of over 200 techies and tinkerers in Greater Flushing

Education

SUNY Stony Brook - B.S. Biology

Coursework and research in Bioinformatics, implementing R and Python based software to analyze genomic data from NCBI. Served as a teaching assistant in courses including organic chemistry and bioinformatics

App Academy - Web Development

1000 hour full-stack web programming bootcamp with a <5% acceptance rate focusing on computer science principles and object oriented programming with respect to web engineering and open source technologies

Military Experience

Served in the US Army, NY National Guard as a 68W (medic) for six years from October 2013 to October 2019.

- **1-69th Infantry Division** – Served as a combat medic, treating patients at point of injury, in transport and in ad-hoc aid stations in the field.
- **NYS MEDCOM** – Healthcare specialist tasked with maintaining and updating annual health assessments (including vision, dental, vaccinations, and mental health) for all soldiers in New York state

Select Projects

- **JSCode.bike** – App to practice solving coding challenges in Javascript. Built with React.js
- **RecipePals** – App built with Node/Express/GraphQL/React for users to share recipes
- **Deuces** – React and Redux app to play popular Chinese card game Big Two against custom built AI's
- **HalalHub** – React/Redux on Ruby on Rails app to track and rate Halal Trucks in NYC
- **Block Overflow** – Fully featured Tetris clone built with React and Redux
- **Senwatch** – Web app built with open source technologies to keep track of US Senators

Professional Engineering Experience

2022 - Current | **Senior Software Engineer**
Compass

Currently working at Compass on the transactions management team, namely on Glide Signatures, an electronic signature product built using React and Python; a focus of my work has been integrating Glide's technology into Compass' microservices stack

2020 - 2021 | **Software Engineer**
Better.com

- Built and improved UI components for preapproval flow in React on top of legacy Ember.js and typescript frontend
- Refactored Node.js and Python microservices used for partner integrations to improve maintainability, increase performance and reduce unnecessary code
- Implemented features for launching partnership promotions with partner companies including American Express, Credit Karma, NerdWallet and others
- Built frontend of concept mortgage servicing app consisting of several pages and microservice integrations in 3 days during company wide hackathon

2019 - 2020 | **Software Engineer**
Condé Nast

- Built infrastructure and tools using web performance API, Splunk, and D3.js to measure and analyze performance of proprietary video player, collecting web performance data from millions of users daily to identify bottlenecks in content and ad delivery pipeline
- Implemented new functionality to enable mid-roll ads and side-rail layout on proprietary web video player, built on video.js and RxJS, increasing ad views by more than 17% within the first quarter of launch
- Updated internal Ruby on Rails applications from using CoffeeScript for client side rendering to React for improved functionality and maintainability
- Designed and contributed features and components to greenfield MERN stack application to be used organization-wide to improve communication and workflow between various teams and entities throughout company

2018 - 2019 | **Software Engineer**
Viewlift

- Built frontend side of new features for our platform including localization, geotargeting, watch history tracking and more
- Created and configured endpoints on Node/Express application to serve data and feeds for OTT applications and RSS/MRSS
- Designed and created elaborate UI elements including toggle filters, menus, dropdown components and more in React to improve product functionality and user experience
- Optimized and debugged complex frontend architecture through multiple caching layers in production environment at scale

2017 - 2018 | **Frontend Developer**
Tommy John

- Built internal tools using React Native and Bluetooth beacons to facilitate processes in-store for greater efficiency and data collection capability
- Built prototypes using Node, Express, Amazon Web Services, Firebase, React, Redux, Vue.js and AMP
- Built modules in HTML, CSS and JavaScript for custom experiences for users with marketing and segmentation technologies such as Dynamic Yield and Tealium

Professional Teaching Experience

2018 - NOW | **Advisor & Instructor**
Fullstack Academy, Thinkful, Codecademy

Advising, teaching, debugging and conducting code reviews regularly for students learning to program online on various platforms and in different formats including 1 on 1 coaching online, reviewing projects and code quality, and formal curriculum based instruction to a full cohort of college students and adult learners enrolled in a bootcamp on nights and weekends

2011 - 2017 | **Tutor & Teacher**
The Princeton Review

Taught classes and small groups ranging in size from three students to thirty-five students in SAT, ACT, GRE, SHSAT and MCAT sciences. Developed and hosted custom lesson plans for private tutoring students to specifically target student deficiencies to significantly raise scores more rapidly. Created web application using Wordpress and PHP to scale class and private tutoring management and to allow students to make appointments online and track progress from a convenient web portal