

SHABEEB SHAH

SOFTWARE ENGINEER

Contact

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Skills

Programming Languages

- Java, Python, JavaScript (Node.js), HTML/CSS, C#, Swift, MATLAB, C, C++

Relevant Skills

- Version Control (git, svn)
- Automated Unit Testing (JUnit, NUnit, UTest)
- CI\CD (Jenkins, XL Release)
- Containerization (Docker)
- Databases (MySQL, SQLite, MongoDB)
- Software Design Patterns, Documentation, UML Modeling, Paired Programming, and Agile Software Development
- Experience with Amazon Web Services (AWS)

Education

University of Arizona, Tucson AZ - GPA 3.45

Bachelor of Science in Electrical and Computer Engineering with a Minor in Computer Science

- Coursework: Object Oriented Software Design, Software Engineering Concepts, Microprocessor Organization, Computer Architecture, Fundamentals of Database Systems, Circuit Theory and Design, and Digital Logic

Projects

shabeeb.me

- Personal website built as a native HTML5 app with a design from html5up.net
- Hosted on a RaspberryPi running an nginx server inside of a Docker container
- Deployed to the internet using AWS S3 and Route 53

spradling—api

- Express REST API built in Node.js that provides functionality for personal projects running on a CoreOS VM inside of a Docker container
- Documented using Swagger UI to view and test the interactions with various endpoints
- Sends API and resource (Cassandra and Prometheus) availability alerts using the Slack API

Automated Optical Surface Defect Detection Tool

- Team lead for a Senior Capstone Project sponsored by Edmund Optics to improve speed and efficiency in the quality assurance process for prism manufacturing
- Developed a MATLAB application to analyze prism flats in tandem with designed optical and mechanical sub-systems
- Winner of the Thor Labs “Photonics is the Future” Award

Autonomous Line Following Robot

- Developed software for a PIC24F microprocessor for motor, speaker, and guidance control
- Designed and assembled robot on a PCB to accommodate dual motors, microprocessor, speaker, infrared sensors, and an LCD panel

Experience

American Express

Software Engineer II and Internship, HR and Communications Technology

Phoenix, AZ - June 2014 – Present

- Designing and developing internal facing cross-platform mobile applications utilizing Xamarin on an agile scrum team while facilitating various agile ceremonies
- Developing a MEAN stack Slack application using the Slack API to update personal information and push HR announcements to AMEX employees
- Developed a Swift iOS application that assists employees book conference rooms in every AMEX campus worldwide
- Mentored interns on software development practices and career growth through hands on instruction while building an iPad application that assists AMEX college campus recruiters find talent
- Winner of 2014 AET Phoenix Hackathon with Project Athena - a personalized dashboard to enhance access to employee benefits

University of Arizona

Undergraduate Lab Assistant, Department of Electrical and Computer Engineering

Tucson, AZ - August 2012 – May 2015

- Assessed and assisted over 200 students with questions regarding data structures, algorithms, syntax, and memory management
- Debugged and corrected C code on a weekly basis while collaborating with a staff of 12 teaching assistants and instructors