Farooq S. Alaulddin
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EDUCATION

Bachelor of Science: Computer Engineering, California State University, Sacramento (2021)
Associate in Science: Computer Science, Folsom Lake College, Folsom, (2019)

TECHNICAL SKILLS

Programming Languages : HTML, CSS, JavaScript, TypeScript, PHP, Python, Java, C/C++, Bash, SQL, Matlab.
Libraries/Frameworks: React, ReactNative, Vue, NextJS, Express, Laravel, SpringBoot, Plone, JQuery, Git.

UI Frameworks: Bootstrap, Material UI, Semantic UI, Vuetify, Figma.

Cloud: AWS (EC2, Lambda, API Gateway. S3. EBS, Images, Volumes, IAM, CloudFront, Amplify)
GCP (Hosting, Auth, Storage)

EXPERIENCE

Doxcelerate Corp. Remote, USA.
Full Stack Software Developer *April 2021 – Present*

- Work closely with clients to meet project requirements, goals, and desired functionality.
- Lead team of software engineers to migrate 3 DOE websites that use Plone CMS from Python version 2 to 3.9, requiring a rewrite of custom plugins that controls many features on the sites.
- Took the initiative to define, build, test, and deploy a search engine that allows the users to search data across multiple platforms. Engine is backed by Apache Solr, Facet, RESTful API, with React Framework & Material UI as frontend.
- Design, install, and maintain, development environments using a variety of AWS development services (IAM, ec2, s3, databases, gateway APIs, CodeBuild, CodeCommit, backups, etc).

INTEL CORP (KELLY). Folsom, CA.
Validation Engineer Mid-Level *January 2021 – April 2021*

- Design system validation environments and test suites for the Power Management and Thermal laboratory unit.
- Develop automated scripts using low-level python modules/libraries that are capable of manipulating the state of a CPU registers to examine, log, and generate test reports.
- Coordinate with other teams to execute stress-test suites under preset quality standards.

CALTRANS (UEI). Sacramento, CA.
IT Intern - Software Development Team *May 2019 – January 2021*

- Design, develop, and test software applications to help the Division of Construction transition from performing business in a paper driven system to an electronic document management or data gathering system.
- Lead team of three developers through the lifecycle of an ecosystem of software applications that digitize the workflow of the civil engineers for the division.
- Applications I led design are being used by many districts throughout California, and it is expected to increase work-efficiency by roughly 50% in respect to old methods.

GoSecure. Sacramento, CA.
IT Intern - DevOps Team *January 2019 – April 2019*

- Assist with the installation, maintenance, and testing of new networks, infrastructure, and network monitoring systems.
- Develop automated procedures to monitor network traffic for suspicious behaviors and log the associate parameters to be viewed by the security team.
- Design network traffic notifications systems to inform responsible parties based on defined security thresholds and/or key indicators.

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PROJECTS

Project Management System *(2020) - Caltrans*	Written based on LAMP Stack & MVC. This app helps engineers track the progress of their assigned projects. Involves CRUD operations, a real-time connection to live databases, multi-level user functionalities, and JWT authentication. Built using HTML/CSS, Javascript, jquery, bootstrap, PHP, Python, MySQL, MVC.
Admin Portal *(2020) - Caltrans*	Written using NodeJS/ReactJS framework, JavaScript & TypedScript, Bootstrap & Material UI, REST APIs, Python, Oracle db. This platform is used alongside the Management system to provide more administration features to managers.
Contract Estimator *(2019) - Caltrans*	Built using HTML, CSS, Bootstrap, JQuery, and JavaScript. A multi-platform web application that estimates project costs based on given inputs combined with standard Caltrans rates.

OTHER PROJECTS

Project Slate OS *Academic - (2019)*	Written in C & Assembly. A multi-process OS built on top of the Intel x86 CPU architecture using SPEDE development environment. Functions: Kernel, and the supporting drivers, interfaces, and system services that make the Kernel. User processes to exercise the Kernel, drivers, interfaces, and system calls.
32 bit- 5-Stage Pipelined Processor Academic - (2019)	Written and simulated using Quartus & Verilog. This 5-stage pipelined processor can handle instructions: Arithmetic operations (add, subtract, add immediate), Data transfer instructions, Branch instructions.
ABS Senior Project Full Stack Application (2020)	Built using React, Materail UI, Python, and Spring Boot (Java, JPA, Hibernate, MySQL, Spring Security JWT). A user-friendly web application that lists a collection of books for a library stock. This is the software portion of my Senior Project design.