

SHAFIE MUKHRE

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EDUCATION

- San Jose State University, USA**, M.S. in Engineering: Software Engineering *Graduated: Aug 2020*
Coursework: Data Structure and Algorithm, Server-side Web Programming, Web UI Design & Development, System Engineering
- Arizona State University, USA**, Entrepreneurship course *Feb 2016 – Apr 2016*
Scholarships: Intel Edge AI scholarship, Young Southeast Asian Leaders Fellowship, MARA Fast-track Undergraduate Scholarship

EXPERIENCE

- Symbi AI, LLC.** | Software Engineering Intern San Francisco, CA | *Mar 2020 to Jun 2020*
- Developed and deployed Meeting Summary app and Aggregated Meeting app with **React**, **Material-UI** and Symbi **RESTful API**.
 - Developed an Async Audio React app that process uploaded audio and return insights such as action items, topics, and questions.
 - Created WebSocket integrations using Node.js with Discord API, Twilio API and Google Actions SDK.
- CS Bio, Co.** | Software Engineering Intern Menlo Park, CA | *Jun 2019 to Aug 2019*
- Conducted **UX Research** by doing **job shadowing**, **contextual interviews**, identifying **personas** to make features more focused.
 - Designed **flow diagram**, **storyboard** and **wireframes** as well as wrote **epics** and **user stories** for the desktop application.
 - Wrote **Software Requirement Specifications** with 142 functional requirements using IEEE 830 standard for development team.
- Omdena, LLC.** | Software Engineering Intern, deep learning Palo Alto, CA | *Apr 2019 to May 2019*
- Built training dataset by annotating and labelling the trees on satellite images using Labelbox tool.
 - Implemented Mask R-CNN model to detect trees by generating bounding boxes with different colors for different accuracy.
- CBM Solutions, Pte. Ltd.** | Software Developer Singapore | *Jan 2018 to Aug 2018*
- Automated energy analysis report with 50% less time by using python for data cleaning and Excel VBA for software interface.
 - Developed Energy Management System visualization web-app with React and Optergy's Proton building controller unit.
 - Increased reliability of the attendance system for operation teams by implementing PWA with Image Capture API feature.

LEADERSHIP

- Google Developer Student Club SJSU** | Web Developer (Design Lead) *Dec 2019 to May 2020*
- Led team of 6 frontend developers to develop the website using Hugo framework, CSS, HTML, bootstrap, particle.js, and Go.
 - Responsible for website maintenance, run agile sprint, managed JIRA project board, and merged pull request.
 - Organized and mentored HackDSC hackathon for 200 participants and help raised \$36,225 total sponsorship prizes.

PROJECTS

- Statsboard** | *Dashboard for Stats - Stack: React, Flask, Postgres, Material-UI, Jest*
- Built and deployed a web application for 2 personas with React, Material-UI, PostgreSQL and 15+ Flask APIs.
 - Implemented **authentication**, **CRUD** operations, **localization**, **pagination**, responsive, **drag & drop**, **SEO** and testing with Jest.
 - Designed JSON response format and database modelling for Firebase and used React Hooks to fetch data from PostgreSQL.
- Movie Review App** | *Text-based anonymous movie review web app - Stack: MERN, Docker, Kubernetes, Skaffold, Digital Ocean*
- Build a simple React web-app that user can add movie title and comment to give review. Build 6 node microservices containerized with Docker's infrastructure that's managed with Kubernetes and Skaffold. All are deployed on Digital Ocean.
- Image Segmentation Tool** | *Tool to build dataset for deep learning training - Stack: MERN, React-Konva*
- Built a web app with features to upload image, create classes, annotate image with different color segmentation.
- Health Form SPA** | *Single Page Application for Doctor and Patient - Stack: React, Firebase, WebSQL, Bootstrap*
- Built web form applications that collect data from patients and Doctors that works online and offline.
 - In the event of there's no internet, the app will use local storage WebSQL to save data and upload to Firebase later.
- FConnect+** | *Centralized resources app for foster youth - Stack: React, Firebase, Bootstrap*
- Built a web form app with React, Firebase, and Bootstrap with **CRUD** operations to crowdsources data from public.
 - Implemented **OAuth** using Firebase Authentication for user to login with Google and Facebook Account.
- Homie** | *Job platform app for people and student facing homelessness - Stack: MERN, Redux, Twilio, Stripe, Material-UI*
- Led end-to-end product dev from research, design (flow diagram, storyboards, wireframes, sketch, prototype) to development.
 - Built a job platform app using MERN stack for 3 personas with SMS notification feature using Twilio API.

SKILLS

- Languages** : Python, JavaScript/TypeScript, C++, Go, HTML, CSS, Sass.
- Technologies** : React, Redux, Node.js, Flask, Express, MySQL, PostgreSQL, MongoDB, Redis, Jest, Chai, Mocha, Docker, Kubernetes, AWS, Vim. RESTful APIs, WebSocket, GraphQL, WebRTC. Distributed Computing, Microservices.

HACKATHONS

- Google's HackDSC Virtual Hackathon 2020** | Mentor
- PayPal Hackathon 2019** (Lead) | 2nd Placed
- USPS Hackathon 2019** (Lead) | 2nd Placed
- Intel-SJSU Paseo Challenge 2019** (Lead) | Top 10
- Y Combinator Hackathon** Spring 2019 | Finalist
- IBM's Call for Code Hackathon** SJSU, 2018 | Top 6