

CHARLES TOLENTINO

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EDUCATION

University of California, Merced

B.S. Computer Science and Engineering

In-Major GPA: 3.47

Coursework: Software Engineering, Algorithms, Computer Vision, Operating Systems, Computer Architecture, Object-Oriented Programming, Human-Computer Interaction, Computer Organization and Assembly Language

May 2019

College of San Mateo

A.S.T. Physics, Mathematics

Coursework: Web Programming, Data Structures, Discrete Math, Engineering Independent Study (Honors)

May 2017

EMPLOYMENT

ICE Lab (San Francisco State University) · Computer Engineer Intern

San Francisco, CA

June 2017 - August 2017

- Utilized Android Studio (Java, XML) to develop an Android app for low-cost hand gesture recognition research with a team of 6.
- Integrated gesture creation for recognition training by allowing the user to add additional gestures to a list of default gestures.
- Implemented save data functionality that saves 400 instances of training data per gesture trained into the android's internal storage.
- Integrated swipeable tabs for the user interface by dividing the main component into 3 tabbed components for interface simplicity.
- Awarded Best Diversity Research Paper (coauthor) for a paper on research conducted with our app at the ASEE-ZONE IV 2018.

PROJECTS

Journaling

React, Redux, Redux Saga, Reactstrap/Bootstrap, Node, Express, Mongoose/MongoDB

August 2019

- Developed a full stack web app that enables users to write journal entries to be displayed in a chronological list view.
- Integrated filtering for quick look-up via textbox to persistently filter entries in the list that contain the typed text as the user types.
- Built and integrated a RESTful backend server to enable CRUD operations to be performed on journal entries to a MongoDB database.

SeekIt (Sponsored by Chan Zuckerberg Initiative)

React, React Native, Firebase, Bootstrap

February 2019 - May 2019

- Spearheaded a team of 4 to develop an app (web, iOS, Android) that allows instructors to engage students in event-based tasks for credit.
- Implemented instructor features for creating events with tasks that prompt image or text entry and for grading student submissions.
- Implemented student features for joining events, completing events via task submissions, and viewing event scores from the instructor.
- Utilized Firebase for authentication, cloud firestore (NoSQL) for user and event data, and storage for image submissions.
- Awarded 1st place in the Chan Zuckerberg Initiative industry category at UC Merced's annual Mobile App Challenge.

HackMerced IV

React, Node, Express, Mongoose/MongoDB, React Native

January 2019 - April 2019

- Contributed to HackMerced open-source repositories by implementing responsive web designs for 4 hackathon sites.
- Built and integrated a RESTful backend server to enable emails to be stored to a MongoDB database for the pre-registration site.
- Built a simple budgeting mobile app that allows users to list items with a purchase value for teaching a React Native workshop.

Lil Bill

React Native, TuriCreate

October 2018 - November 2018

- Collaborated with a team of 4 to develop an iOS app that classifies USD dollar bill values for a case study on audio and tactile feedback.
- Implemented classification via camera to identify objects with rendered text and audio of the USD value if a dollar bill is detected.
- Utilized TuriCreate to process over 20,000 images (self-taken and online images) to create a trained CoreML compatible model.

ACTIVITIES

HackMerced · Director of Engineering

May 2018 - May 2019

- Collaborated with HackMerced directors weekly in planning the largest annual hackathon within the San Joaquin Valley.
- Managed a team of 12 Software Engineers and 2 Project Managers to develop open-source projects for the organization.
- Provided mentoring during the hackathon for Android Studio and Firebase, as well as running a React Native introduction workshop.

SKILLS

Languages: Javascript, HTML, CSS

Libraries/Frameworks: React, React Native, Redux, Bootstrap, Redux Saga, Express

Software Tools: Git, Firebase, Node.js, MongoDB