

# CHARLES TOLENTINO

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## EDUCATION

### University of California, Merced

May 2019

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

### College of San Mateo

May 2017

A.S.T. Physics, Mathematics

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

## EXPERIENCE

### HackMerced · Director of Engineering

May 2018 - May 2019

Merced, CA

- Contributed to HackMerced open-source repositories by implementing responsive web designs for 4 hackathon sites.
- Built React frontends and a RESTful backend (Node, Express, MongoDB) to enable emails to be stored from the pre-registration site.
- 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 build software for the organization.
- Instructed a React Native workshop and provided mentoring for Android Studio during the hackathon.

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

June 2017 - August 2017

San Francisco, CA

- Utilized Android Studio (Java, XML) to develop an Android app for low-cost hand gesture recognition research with a team of 6.
- Implemented gesture creation for recognition training by enabling the user to add additional gestures to a list of default gestures.
- Integrated the android's internal storage to save 400 instances of electromyography data per gesture trained.
- 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

August 2019

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

- 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 a RESTful backend to enable CRUD operations to be performed on journal entries to a MongoDB database.

### SeekIt (Sponsored by Chan Zuckerberg Initiative)

February 2019 - May 2019

React, React Native, Firebase, Bootstrap

- Spearheaded a team of 4 to develop an education-enhancing app that enables instructors to engage students in scheduled events.
- 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 scores from graded events.
- Integrated 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.

### Lil Bill

October 2018 - November 2018

React Native, TuriCreate

- Collaborated with a team of 4 to build an iOS app that classifies US 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.

## SKILLS

**Languages:** Javascript, HTML, CSS

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

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