

# CHARLES TOLENTINO

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## EDUCATION

### University of California, Merced

May 2019

B.S. Computer Science and Engineering

GPA: 3.29 (In-Major GPA: 3.47)

Coursework: Software Engineering, Computer Vision, Algorithm Design and Analysis, Operating Systems, Computer Architecture, Object-Oriented Programming, Human-Computer Interaction

### College of San Mateo

May 2017

A.S.T. Physics and Mathematics

Coursework: Intro to Web Development, Data Structures, Object-Oriented Programming, Discrete Math, Engineering Independent Study (Honors)

## EMPLOYMENT

### SFSU ICE Lab · Computer Engineer Intern

June 2017 - August 2017

San Francisco, CA

- Rebuilt a Myo-Armband gesture recognition PC-based application for Android devices using Android Studio(Java, XML) with a team of 6.
- Implemented save data methods that saves 400 instances of training data per gesture trained into the android device's internal storage.
- Improved training feature from selecting up to 3 default gestures to allowing the user to create and train any amount of additional gestures.
- Improved usability by fixing activity lifecycle inconsistencies and collaborating in architecting the application flow with navigation tabs.

### MESA Skyline College · Student Assistant

February 2017 - May 2017

San Bruno, CA

- Provided services in mentoring in STEM courses such as Math, Physics, C++, Java courses and planning future semester coursework.
- Participated as a science fair judge at local elementary schools to promote and encourage STEM education for the youth.

## PROJECTS

### SeekIt

Spearheaded a team of 3 to develop a Scavenger Hunt application to be utilized by college-level users, sponsored by Chan Zuckerberg Initiative.

ReactJS, React Native, Firebase, Javascript, Bootstrap

- Developed a web and mobile (iOS, Android) application that allows instructors to engage students in scavenger hunt events as an assignment.
- Implemented instructor features such as creating events, adding event tasks that accept an image or text submission, and student grading.
- Implemented student features such as joining events, completing event tasks via submissions, and viewing submission results once graded.
- Utilized Firebase for authentication, cloud firestore (NoSQL) to store data such as user or event info, and firebase storage to store images.

### HackMerced IV

Spearheaded the HackMerced Engineering team to develop web applications pertaining to the HackMerced IV event.

ReactJS

- Developed the registration site that was utilized by over 500 applicants to register with Typeform and view information about the event.
- Developed the live site to provide relevant links and detailed event information to over 350 participants during the 36-hour event period.

ReactJS, NodeJS, ExpressJS, MongooseJS, MongoDB

- Developed a mailing list site that pre-registered nearly 100 email address to receive HackMerced IV event-related updates.

### Dollar Bill Classifier

Inspired from the Not Hotdog application from the TV series Silicon Valley and built for a Human-Computer Interaction course.

React Native, TuriCreate

- Developed an iOS application that uses the camera to classify the USD value of a dollar bill with audio or tactile feedback with a team of 3.
- Utilized TuriCreate by processing over 20,000 images (self-taken and online images) to create a trained CoreML compatible model.
- Conducted a user study focused on audio and tactile feedback to record the classification accuracy and user feedback preferences.

## LEADERSHIP

### HackMerced · Director of Engineering

May 2018 - Present

- Co-directed and mentored a team of 12 Software Engineers to collaborate in building web applications for the organization.
- Cooperated with HackMerced directors weekly in planning the largest annual hackathon within the San Joaquin Valley.
- Held a React Native introduction workshop and provided mentoring in utilizing Android Studio and Firebase for hackathon participants.

## SKILLS

Languages: Javascript, HTML/CSS, C++, Java | Software Tools: ReactJS, Firebase, React Native, Bootstrap, Git, MongoDB