

## Experiences

### SOFTWARE ENGINEERING INTERN *Paciolan* – Irvine, CA

June 2019 – September 2019

- Synchronized NFC enablement for Apple Wallet and Google Pay Passes using Java
- Developed AWS Lambda APIs to facilitate ticket updates to Google Pay Passes using Serverless
- Pushed for use of Digital Wallet and added analytics to the ticket delivery page
- Developed a full-stack internal page to accelerate database updates using React, Redux, and Express
- Created a dashboard that centralizes live-tracking of 37,000+ scans over a weekend
- Ensured product quality by writing unit tests and creating metrics dashboards

### UNDERGRADUATE RESEARCH ASSISTANT *UC Irvine* – Irvine, CA

Oct 2018 – June 2019

- Debugged and corrected the statistical distribution for a C algorithm on creating k-graphlets of protein networks

## Education

### University of California, Irvine

Bachelor of Science in Computer Science

Expected graduation date: Spring 2020

## Coding Projects

### SEARCH ENGINE *using Python Flask and React*

- Built an efficient partial index from ~55000 web pages with small memory footprint
- Developed a search engine from scratch that displays top 5 relevant results with 300ms constraint

### CUSTOMER BEHAVIOR PREDICTION *using Python*

- Won **3rd place on Kaggle competition of 193 teams** in Machine Learning class
- Tested and compared different Machine Learning ensembles on dimensionally reduced data

### CODING BOARD WEB & IOS APP *using Google Cloud Vision OCR and React*

- Won **Best Use of Google Cloud Platform** at HackUCI 2019
- Developed the front-end app that saves coders typing and testing time of their programming solutions
- Allowed the user to upload a snapshot of written code, edit the processed typed code, and test run the finalized typed code

### MAGIC THE GATHERING DATABASE WEB APP *using React, Apache Tomcat, MySQL, AWS*

- Created a website that allows browsing, searching, and buying Magic the Gathering cards deployed on AWS Ubuntu EC2
- Implemented a persistent login page with Google Recaptcha 2.0 and session cookie
- Developed full-stack purchase features: adding cards to cart while browsing, checkout page, and payment confirmation page

### #RUNKEEPER REPORT WEBSITE *using TypeScript, Twitter Proxy, Vega-Lite, CSS, and HTML*

- Implemented a text search interface that displays the tweet number, activity types, and tweet content for any search query
- Showed live and saved #RunKeeper tweets content and analysis visualized with Vega-Lite
- Summarized data on dates, number of categories of activities and number of tweets with user-written texts
- Created visualization for top 3 most popular activities on number of logged activities and distances by days of the week

### MIWOK LANGUAGE LEARNING ANDROID APP *using Android Studio*

- Created an app that provides translations between default language (English) and Miwok language
- Implemented swipe navigation and tab layout, visual illustration, and audio pronunciation for each word in Miwok language
- Optimized memory and added audio focus for better user experience

## Skills

- Proficient in Java, Javascript, and familiar with TypeScript, C, C++, Python
- Skilled in using server-side frameworks (Serverless, Express, Mocha, Java Cucumber) and libraries (Chai, Nock)
- Familiar with client-side frameworks (React, Angular, Bootstrap), libraries (Redux, JQuery), and languages (HTML, CSS)
- Trained in Big Data technologies (Spark, Neo4j, MongoDB, Cassandra, DynamoDB)

## Achievements

- Jack Kent Cooke Undergraduate Transfer Scholarship:
- UC Regents Scholarship
- UCI Alumni Association Scholarship
- Hubbard "HUB" Howe Memorial Scholarship

## Community & Leadership Activities

### DIRECTOR OF MEMBERSHIP & DEVELOPMENT

*Honors Student Council, Orange Coast College - Costa Mesa, CA*

Nov 2014 – July 2015

- Contributed to outreach and fundraising by reaching out to businesses to find collaborations and set up booths at events

### VOLUNTEER

*Sydney Cooper Senior Smiles – Newport Beach, CA*

Apr 2014 – Apr 2016

- Accompanied and assisted seniors in recreational activities i.e. Bingo, Collages, Arts and Crafts, and Trivia