

Jonathan Estrada

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EDUCATION

University of California, Irvine // 2018 - present

- **GPA: 3.91** // Computer Science Major // Pursuing B.S. // Sophomore Standing //
- **Relevant Coursework:** IN4MATX 43: Software Engineering, ICS 6B / 6D: Discrete Math, ICS 6N: Computational Linear Algebra, ICS 51, 53: **Computer Organization & System Design**, ICS 46: **Data Structures**, CS 121: **Information Retrieval**, CS 122A: **Data Management/Databases**, CS 171: **Intro to Artificial Intelligence**

TECHNICAL SKILLS

Programming Languages: C, C++, Python, SQL, Javascript, CSS, HTML

Technologies: MySQL, NodeJS, ReactJS, Express, mongoDB, TensorFlow, Keras, Git

EXPERIENCE

Napa Valley College Bookstore Sales Associate // July 2019 - September 2019

- Customer Service: answering customer questions & assisting with the purchase of merchandise
- Cashier/Register Duties: processing transactions every day involving cash/credit

ACHS Summer Academy Tutor // June 2017 - July 2017

- **Supervised/taught 30-40 students** how to code in **Ch**, a derivation of **C++/C**
- Showed how to apply mathematical knowledge in practical applications

PROJECTS

FindMyBoba // Back-end Developer // November 2019

- Designed a **web-app** during UCI's Zothacks Hackathon that determines a user's current location and displays an open, random boba place within a 10-mile radius.
- Built using **Javascript, HTML, and CSS in Node.js** with the **Express** framework and **React.js**.
- Utilized the **Yelp Fusion API** to generate results for reputable boba places.

Digit / Natural Scenery Recognition // Machine Learning, Self-study // October 2019

- Created two **Convolutional Neural Network** models using **TensorFlow** and **Keras**; prepared data using **NumPy** and **Pandas** libraries.
 - **Digits:** Trained on MNIST data, **98% accuracy** on validation set
 - **Natural Scenery:** Trained on data from Intel, **83% accuracy** on validation set

BillSplit // Full-stack Developer // April 2019

- Designed a mobile Android app during USC's HackSC **Hackathon**: splits a party's bill by scanning receipts.
- Utilized **Taggun's Optical Character Recognition**, **Twilio's API**, and **Paypal's API**.

Minesweeper AI // Class Project // May 2020 - June 2020

- Created and programmed an agent that **solves Minesweeper worlds**.
- Implemented **model checking algorithms** and utilized **basic probability** to uncover tiles
- Out of 1000 random worlds, agent solves **80% of 8x8 10-mine worlds** & **70% of 16x16 40-mine worlds**

ACTIVITIES

Circle K Technological Internship Program (TIP) // March 2020 – current

- Worked on a **visual mentor/mentee tree line** displaying the Circle K mentor/mentee program
- Currently making improvements on **system database** and **UX**