# Perry Yang

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## Education

**University of California, Santa Cruz** • Santa Cruz, CA **Sep 2017 – present**
**Computer Science B.S.** Expected Jun 2020
Dean's Honer for being top 10% of undergrad
GPA: 3.9/4.0

## Technical Skills

- Programming: Python, C++, Java, C, Haskell, Prolog, Scala, JavaScript, HTML5/CSS3, LaTeX, Markdown
- Technology: Flask, Postman, MongoDB, Redis, Unix, Git, React, Pytorch, Docker, Vim, MS Visual Studio, Eclipse
- Product Management: Scrum, Jira, Trello
- Languages: Cantonese, Mandarin

## Relevant Coursework

- Data Structure & Algorithm • Computer Architecture & Assembly Language • Software Engineering
- Distributed System • Neural Network • Comparative Programming Language • Computer Networking
- Web Application

## Work Experience

**Grader** University of California, Santa Cruz **Jul 2019 – present**
Santa Cruz, CA

- Grade programming assignments for 200 students across two upper division CS classes

**Back-end Developer Intern** ColorfulClouds Tech. **Summer 2019**
Beijing, China

- Developed a new custom-dictionary feature for LingoCloud Interpreter app for approximately 10,000 users to add customized words
- Built the custom-dictionary using Flask for web development and MongoDB for data management
- Utilized Redis database to cache customized translation result, reducing the response time by 80% less than the time taken without cache
- Implemented a CMS for backstage management organizing data in MongoDB with an open-source framework AMIS by Baidu Company in two weeks

**C++ Programmer Intern** Seekway Technology **Summer 2018**
Guangdong, China

- Implemented 3D animation display on a LED cube display equipment with C++ and Microsoft Visual Studio
- Accomplished a LED light show project, which was exhibited by SK-II in the 50th China International Beauty Expo in Guangzhou in Sep 2018

## Projects

**Understanding Healthcare Data (Python, PyTorch)**
*Anthem, Inc.*

- Extracted 490 SNOMED codes and the corresponding healthcare conditions out of 4,848 patients from synthetic datasets generated by Synthea Simulator
- Built a Convolutional neural network with an accuracy of 96% in a team of three using PyTorch to predict the re-hospitalization of patients with Congestive Heart Failure based on the Synthea data

**E-Sport Stat Tracker (Python, React)**
*Team*

- Implemented API calls retrieving data from databases using Flask, and maintained data within MongoDB
- Helped build a user-friendly UI using React within a team of five with Scrum methodology and overall delivered a web application to statistically visualize professional players' performance in League of Legends in six weeks

**Tiny Language Interpreter (Haskell, Python, Scala)**
*Individual*

- Wrote three versions of language interpreter in Haskell, Python, and Scala respectively for a tiny programming language, which contains four types of statements: *let variableName = expression, if expression goto label, print expression(s), input variableName*