Sydney Lim

MSCS @ UCSB

Last update: October 7, 2022

Up-to-date version of CV is available at
https://sydneylim.github.io/resume

Location	Fremont, CA
LinkedIn	Sydney Lim
GitHub	sydneylim
Email	scqlim@gmail.com

Student pursuing an MS in Computer Science as part of a 5-year B.S./M.S. program at UC Santa Barbara. Aiming to leverage a proven knowledge of agile development, prototyping, product design, and R&D skills to land a software engineering position.

C	●●●●	C++	●●●●	Java	●●●●	JavaScript	●●●●	Ruby on Rails	●●●●	Verilog	●●●○
React	●●●○	Express	●●●○	Heroku	●●●○	MongoDB	●●○○	MySQL	●●●○	PostgreSQL	●●●○
AWS	●●●○	Eucalyptus	●●○○	Apache Bench	●●●●	GitHub	●●●●	Agile	●●●●	Jupyter	●●●●
MATLAB	●●●●	Unix/Linux	●●●●								

Professional Experience

Jun 2022 - Sep 2022

Software Engineering Intern

- Worked closely with a small team on full-stack software development using Ruby on Rails and React.js.
- Practiced agile software development skills and consistently participated in pair programming, standups, retrospectives, and backlog refinement.

`Ruby on Rails` `Full Stack Development` `Agile Software Development` `React.js` `RubyMine`

Aug 2021 - Sep 2021

Data Loss Prevention (DLP) Intern

- Worked on a data loss prevention project with a goal to pinpoint sources of and minimize internal threats.
- Implemented robotic process automation (RPA) script to automate data extraction in Python.
- Utilized Microsoft Power BI, Tableau, and SQL to compile, cleanse, analyze, and present the data.

`Python` `Microsoft Power BI` `Tableau` `SQL` `Robotic Process Automation (RPA)`

Jun 2019 - Sep 2019

Summer Intern

- Designed a database in MySQL/PostgreSQL. Utilized Microsoft Power BI to cleanse a user database.
- Designed and presented a prototype UI for the database in a pre-production environment.
- Researched natural language processing and data warehouses (Amazon AWS, Microsoft Azure, Google BigQuery).

`MySQL` `PostgreSQL` `Microsoft Power BI` `Prototyping` `Product Design`

Projects

Sep 2021 - Mar 2022

T.A.L.K., GitHub Repo

Senior CS Capstone Project, sponsored by Invoca

- Worked in a team of six to develop an Express web application deployed on Heroku to be used by salespeople.
- Our multi-cloud solution displays critical call information in a single view.
- Transcriptions generated by IBM Watson in near real-time retain important call details.
- We leverage NLP Cloud to generate concise call summaries so that salespeople can easily remember call contents.
- Keywords and the customer's sentiment are determined using Google Cloud's NLP API to guide sales follow-ups.
- We integrate Invoca's APIs service to retrieve call transcripts and store the data in a MongoDB database.
- We maintained well-documented code bases with version control, and touched base with mentors weekly and with team members daily.

Express | JavaScript | Heroku | CSS | MongoDB | GitHub | Agile Development

Mar 2021 - Jun 2021

UCSB Courses Search, Application

Project for CMPSC 156: Advanced Applications Programming

- Worked with a team of ~20 people on this legacy project, a web application used to search for classes based on input criteria.
- Worked closely with a team of 5 people to focus on improving the search user interface.

React | Heroku | Spring Boot | Auth0 | GitHub | Agile Development

Feb 2021 - Mar 2021

Vision Test, Project Page

Project for ECE 153B: Sensor and Peripheral Interface Design

- Designed a “vision test” that simulates a tumbling E chart with symbols gradually decreasing in size.
- The E's are displayed on an 8x8 LED Matrix and a user inputs the direction that the E is facing using a Wii Nunchuk.
- A distance sensor will verify that the user is standing at an appropriate distance from the display.
- A terminal will display the user's vision score.
- Both the 8x8 LED Matrix and the Wii Nunchuk communicate with an STM32 microcontroller using I2C.
- The terminal communicates with an STM32 microcontroller using SPI.

C | STM32 Microcontroller | I2C | SPI | Peripherals | Product Design

Jan 2021 - Feb 2021

COVID-19 Survival Naive Bayes Classifier, GitHub Repo

Project for CMPSC 165A: Artificial Intelligence

- Designed a Naive Bayes Classifier in Python that determines whether a patient will survive from COVID-19 given their preconditions.
- Preprocessed and cleansed training and validation data sets using NumPy and SciPy.
- Built a model to determine which data fields were of greater importance.
- Placed second on the class leader board for classification accuracy and runtime.

Artificial Intelligence | Machine Learning | Python | NumPy | SciPy | Data Processing | Modeling

Education

Expected Jun 2023

University of California, Santa Barbara, Santa Barbara, CA

Master of Science in Computer Science

- GPA: 4.0/4.0
- Programs: 5-year B.S./M.S. Program in Computer Science
- Coursework in: Scalable Internet Services, Augmented Reality, Computer Graphics, Operating Systems, Runtime Systems
- Extracurricular Activities: Four Eyes Lab (Pursuing research in human-computer interaction, computer vision, and augmented reality), UCSB Badminton Club

Sep 2018 - Mar 2022

Universtiy of California, Santa Barbara, Santa Barbara, CA

Bachelor of Science in Computer Engineering

- GPA: 3.7/4.0
- Programs: College of Engineering Honors Program, 5-year B.S./M.S Program in Computer Science
- Coursework in: Data Structures and Algorithms, Artificial Intelligence, Machine Learning, Computer Vision, Digital Image Processing, Operating Systems, Network Computing, Advanced Applications Programming, Object-Oriented Design, Sensor and Peripheral Interface Design
- Extracurricular Activities: Co-Founder and Vice President of UCSB Badminton Club (4 years)

Aug 2014 - Jun 2018

American High School, Fremont, CA

High School Diploma

- UC Weighted GPA: 4.50 (Uncapped), 4.14 (Capped)
- SAT I: 1560/1600
- SAT II Chemistry: 800/800
- SAT II Math L2: 800/800
- Relevant AP classes: AP Chemistry, AP Physics C, AP Biology, AP Calculus BC, AP Computer Science (in Java), and AP English Language and Composition