David Chang

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EDUCATION

University of Washington, Seattle, WA

BS in Computer Science

Minor in Mathematics

GPA: 3.73/4.00 (Dean's List)

Expected Graduation: June 2022

Related Coursework:

Data Structures and Algorithms (CSE 332)

Software Development and Implementation (CSE 331)

Web Development (CSE 331 and INFO 101)

Matrix Algebra with Applications (Math 308)

	Winter 2021	*Spring 2021*
Anticipated Courses:	Artificial Intelligence (CSE 473)	Natural Language Processing (CSE 447)
	Machine Learning (CSE446)	Computer Vision (CSE 455)

SKILLS

Programming Languages: Java, Python, Numpy, C, Matlab, HTML, CSS, Javascript

Experience with: React, Gatsby.js, Spark Java, JUnit, Git, LaTeX, Netlify

Labs: Soldering

EXPERIENCE

Mobile Application Development Project - Fitness App

June 2020 – Present

A powerlifting training log app for Android and iOS using React Native and Spark Java.

- Designed a seamless UX/UI that allows users to create their own training programs by implementing client-server and event-driven programming
- Uses model-view-controller to program front-end and back-end designs that interact with a database
- Beta-tested with 4 people and allows users to create and save their training programs
- Next: enabling users to share their programs with each other

Image Processing Research, Seattle, WA

January 2019 – June 2019

Undergraduate research, Professor: Liguo Wang

Image processing for determining of 3-dimensional structures of proteins.

- Preprocessed and filtered images of vesicle data from a cryo-electron microscopy file format using Matlab
- Reconstructed the 3-dimensional structure of proteins from multiple 2-dimensional images by removing the lipid vesicles of varying sizes
- Refactored 36 programs from Matlab to Numpy

NASA Student Launch, Irvine, CA

June 2016 – April 2018

Payload Manager

Implemented the payload, air brake and recovery systems of a recoverable and reusable rocket

- Placed fifth at Team America Rocketry Challenge
- Qualified to compete in NASA Student Launch (top 25 teams in the nation)
- Won best website award in the high school division
- Designed and built a CO2 sensor electronic control board using Arduino
- Programmed and built an autonomous air brake system on the rocket
- Wrote the statement of work and four design reports every other month with a team of 6

ACTIVITES

University of Washington EcoReps (member)

January 2019 – present

- Supported local producers and sustainable food practices at the Green Husky Market