

THEOPHANIS FOX

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EDUCATION

Master of Science in Computer Science and Engineering Expected Jun. 2022

University of California, Santa Cruz

Bachelor of Science in Computer Science with Highest Honors Jun. 2021

University of California, Santa Cruz

- University Honor, Summa cum laude
- GPA: 4.00 (Dean's honors all quarters)

WORK EXPERIENCE

Software Development Engineer Intern at Amazon Jun. 2021 - Sep. 2021
and Jun. 2020 - Sep. 2020

- Designed, implemented, and deployed services and mechanisms that detect untimely delivery of content for Amazon Prime Video
- Used Java, TypeScript, and AWS services

Grader for CSE 102: Introduction to Analysis of Algorithms Nov. 2019 - Dec. 2019

- Responsible for grading a portion of the homework assignments and exams

COURSE PROJECTS

Simple Language with Implicit Parallelism - Mar. 2021 - Jun. 2021
CSE 210A: Programming Languages

- An interpreter for a simple imperative language that aims to improve program performance by automatically parallelizing certain statements
- Single person project, written in C++

Key-Value Store - CSE 138: Distributed Systems Mar. 2020 - Jun. 2020

- Implemented a sharded, fault-tolerant key-value store with causal consistency and a REST API
- 4 person project, built with Docker and Python - Flask

SoCal House Prices - CSE 140: Artificial Intelligence Jan. 2020 - Mar. 2020

- Developed a neural network that predicts house price with a mixed input of image and textual data, with a mean absolute error of \$99K
- 3 person project, built with Python - Keras

PROJECTS

In The Know - CruzHacks 2020 Jan. 2020

- A service that periodically scrapes the web to find local news, summarize it, then compile it into a report that goes to an iOS app and an email report
- 3 person project, built mostly with Microsoft Azure and Python

Twitch Info Alexa Skill - CruzHacks 2019 Jan. 2019

- An Alexa skill that calls the Twitch API and summarizes info about what streams are live on Twitch

- 3 person project, built with AWS and JavaScript

SKILLS

- Strong experience programming with Java, Python, C/C++, TypeScript, HTML, CSS, and various assembly languages, some familiarity with JavaScript and Ruby
- Strong experience with AWS services, some experience with Azure
- Great familiarity with Docker, Linux/Unix environments, and Git
- Firm understanding of data structures, dynamic programming, machine learning concepts, and general software engineering design principles