THAPELO SEBOLAI

SOFTWARE ENGINEER

📍 San Francisco, USA ~
Johannesburg, SA

in thapelo-sebolai

○ thapz123

Summary

Stanford University
Computer Science (Artificial Intelligence)
Class of 2020

Skills

PROFICIENT IN:

HTML/ CSS

JavaScript

C++

MeteorJS

Python

Hacklang

C

FAMILIAR WITH:

JQuery

ReactJS

React Native

SQL

MISC. TOOLS

Git/ Github

SublimeText

UNIX

Vim

UNIQUE QUALITIES

Having a multicultural perspective gained from living throughout the African continent.

Bilingual - Afrikaans and English

Can understand 3 additional South African languages

INTERESTS

Artificial Intelligence

Machine Learning

Making music and playing guitar

Education

Stanford University   Sept. 2016 to June 2020
B.S Computer Science 2020
Graduated with a B.S in Computer Science with a concentration in Artificial Intelligence.

African Leadership Academy
2016
Completed A- Level Chemistry, Physics and Mathematics courses.
Developed Entrepreneurial Leadership skills and adapted them to suit the African continent.

Employment

Meta Inc   San Francisco
Software Engineer   Aug. 2020 to Current
Engineered modern frameworks to enable partner teams to build their personalized products into Ads Manager using React and Hack. This work involved creating data pipelines to store user data, building user-facing UI's and constructing performant API's to update advertiser configurations. Contributed and independently owned multiple work-streams end-to-end, interfacing with cross-functional partners such as product design, content strategy and data engineering.

Slack   San Francisco
Software Engineering Intern   June 2019 to Sept. 2019
Played a key role in pushing forward a core Platform feature, Granular Bot Scopes, which breaks down the monolithic BOT permission scope granted to bot applications on Slack, into smaller scopes that allow for greater developer flexibility. This involved becoming more versed in TDD, ramping up onto the codebase quickly, and learning to work alongside senior engineers.

Stanford Computer Science   Stanford, Palo Alto
CS106 Section Leader   May 2018 to Current
Selected to lead a section for CS106A, Stanford's introductory computer science course. I teach modern software engineering principles like abstraction and decomposition through problem-centered lessons.

Nylas   San Francisco
Software Engineering Intern   June 2018 to Sept. 2018
I created a deploy system that allowed the engineering team to deploy build artifacts to production in a more streamlined manner by refactoring old deployment code and adding interactivity.
I built a bounce and auto-reply email detection system that a large number of the company's customers have requested. I learned SQL to create stable database migrations and used Python to create the detection suite and add corresponding API endpoints.

Clock.Education   Johannesburg, South Africa
Junior Front-end Developer   June 2016 to Aug. 2016
Clock is a start-up designed to create innovative tools geared towards improving education on the African continent.
Prototyped a survey platform for their flagship learning management system using ReactJS and Twitter Bootstrap that enhanced their collection of user data from MBA students of the African Leadership Unleashed MBA program.

Undergraduate Courses and Projects

CS231N - Convolutional Neural Networks for Visual Recognition   Apr. 2019 to June 2019
- Experimented with Computer Vision methods to detect arbitrarily photoshopped images obtained from Reddit. This involved using generative methods like DCGANs an Pix2Pix GANs to classification methods like InceptionV3 and traditional CNNs.

CS221   Sept. 2018 to Dec. 2018
- Built a game playing agent for the strategy game, Coup, by modeling it as a Markov Decision Process and used various optimization strategies to produce a good adversary.

CS124- Natural Language Processing   Jan. 2018 to Mar. 2018
- Built various NLP tools like Chatbots and Information Retrieval Systems.

CS51/ 52- CS+Social Good Studio   Jan. 2018 to June 2018
- Worked alongside TechHire Oakland to create Pathways, a tool that enables minorities without a traditional Software Engineering background to connect with companies and enter the tech space.

CS110- Principles of Computer Systems   Sept. 2017 to Dec. 2017
- Designing components of complex computer systems from creating a shell to building a full MapReduce framework in C and C++.

CS 193X- Web Programming Fundamentals   Apr. 2017 to June 2017
- Built numerous front-end and full-stack applications using NodeJS and Vanilla ES6 including diary and flashcard applications for the web.

CS 107- Computer Organization & Systems   Jan. 2017 to Mar. 2017
- Built a heap memory allocator from the ground up in C.
- Built implementations of Vector and Map in C as well as various UNIX tools like grep and which.

CS 106B- Programming Abstractions in C++   Sept. 2016 to Dec. 2016
- Implemented data structures like Stacks, Queues and Maps in C++, explored greedy and graphing algorithms and traversed into the world of recursion.

Awards

8VC · 8VC Fellow   June 2018
The 8VC Fellowship is an enriched summer internship program designed to foster the technology leaders of tomorrow where students meet and learn from notable entrepreneurs, executives, and investors in the 8VC network.

Code2040 · Code2040 Fellow   June 2018
Code2040 is a community of Black and Latinx technologists and their allies who are diversifying tech to create a more equitable, inclusive, and prosperous economy.

Activities

Black In CS- Stanford · Core Member   June 2017 to June 2020
- I helped plan events like hackathons, excursions to tech companies and extra-office hours for those in the introductory CS classes to make CS more inclusive at Stanford.

Everyday People · Tenor   Sept. 2017 to Dec. 2018
- Everyday People is Stanford's only R&B/ Soul Acappella group with a repertoire created entirely by it's members where I sing Tenor.