

CHRISTOPHER LOOK

✉ lookwchristopher@gmail.com 🌐 www.chriswlook.me ☎ 301-814-4298 in christopher-look 🌐 lookcw

EDUCATION

University of Maryland, College Park

B.S. Computer Science, B.S. Bioengineering 2020

GPA: 3.89

Aug. 2016 - May 2020

EMPLOYMENT

Amazon Web Services · Software Development Engineer · Seattle, WA May 2019 - Aug. 2019, Sept. 2020 - Current

- AWS Security Token Service (STS) vends tokens as the authentication entry point to all AWS resources.
- Created tensorflow machine learning model to predict which customers would get throttled
- Accelerated config CI/CD in Java by extracting it into a separate microservice.

Flatiron Health · Software Engineer Intern · New York, NY

June 2018 - Aug. 2018

- Developed fullstack dashboard for developers to view and interact with builds, tickets, and code reviews.
- Fetched and displayed data on React frontend using .NET backend in MVC model.
- Hosted on ansible deployed EC2 instance with Jenkins for continuous integration.

Fischell Department of Bioengineering · Assistant Researcher · College Park, MD

Sept. 2016 - May 2018

- Authored computational biology paper on elucidation of mechanism behind protein shape change in allostery.
- Used graph theory to identify critical amino acids in a protein network using shortest path analysis

ACTIVITIES

Synapto, LLC · Co-founder, Chief Technology Officer

Sept. 2017 - May 2020

- Led team of four engineers to develop Alzheimer's diagnosis technology with over 80% accuracy.
- Raised over \$40,000 in several competitions, and featured in Forbes, CBS, Washingtonian, and more.
- Designed modular machine learning python pipeline for rapid feature iteration.
- Developed full stack electron application as MVP for doctors.

Senvision · Co-Founder

Aug. 2016 - Jan. 2018

- Developed twitter scraper and trained sentiment analysis model for financial predictions.
- Ran daily scraping jobs on DigitalOcean and weekly sci-kit learn model updates using Cron.
- Traded real money on Robinhood, earning 2x the market over 5 months using robinhood API.

PROJECTS

EEGML · github.com/lookcw/EEGML

Jan. 2021 - Current

- A python library framework to process eeg data and iterate rapidly on different possible feature sets for diagnoses.
- Allows for selective caching of data to aid in deeper investigation.
- Allows use of plug and play filtering, feature extraction, and post processing methods with minimal client code.

Eat In · eat-in.herokuapp.com

June 2020 - Aug. 2020

- React and Django app hosted on Heroku to find recipes given a list of Ingredients, inspired by personal hardships.
- Uses NLP to resolve ingredients with different names

Sunrise · github.com/lookcw/Sunrise

Apr. 2019 - Apr. 2019

- Mental health telemonitoring app that uses NLP on social media communication.
- Scraped text from DOM with chrome extension, sent to server, analyzed with NLTK, displayed with ReactJS.

SKILLS

ARCHITECTURE: Machine Learning, Microservices, CI/CD, Distributed Systems

TOOLS: Java, Python, React, Git, React, PostgreSQL, Sci-kit Learn, Electron, Jenkins, Tensorflow, Javascript, Shell Scripting, Spring, Django