

CHRISTOPHER LOOK

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EDUCATION

University of Maryland, College Park Aug. 2016 - May 2020
B.S. Computer Science
B.S Bioengineering
GPA: 3.91

EMPLOYMENT

Flatiron Health · Software Engineer Intern · New York, New York June 2018 - Aug. 2018

- Developed dashboard for developers to view and interact with builds, tickets, and code reviews.
- Fetched data and displayed it on UI using React & .NET then hosted site on EC2 instance with using Jenkins & Ansible for continuous deployment.
- Interviewed developers and led direction of project based on mentor and interview feedback.
- Released to engineering organization, still currently in use.

University of Maryland, College Park · Assistant Researcher · College Park, MD Sept. 2016 - May 2018

- Aided in elucidation of mechanism behind protein shape change in allostery using graph theory and network analysis.
- Analyzed amino acid node networks to find critical amino acids to aid in drug discovery.
- Initiated weekly meetings with mentor to communicate progress on project.

NCATS/NIH (National Institutes of Health) · Intern · Rockville, MD May 2016 - Aug. 2016

- Compared accuracies of structural docking vs. machine learning for molecular drug discovery using bash.
- Designed novel NLP method for predicting protein-protein interactions using java.
- Presented at annual NIH poster day.

ACTIVITIES

Synapto, LLC · Co-founder, Chief Technology Officer Sept. 2016 - Present

- Lead team of four engineers using agile to develop Alzheimer's diagnosis technology.
- Raised over \$35,000 in several competitions, and featured in Forbes, CBS, Washingtonian, and more.
- Created pipeline using Matlab, Tensorflow, & AWS to make 85% accurate Alzheimer's vs Healthy classification.
- Run jobs on centralized AWS server usable through IAM by all team members.

Senvision · Co-Founder Aug. 2016 - Jan. 2018

- Devised twitter and news scraper using python and java and trained sentiment analysis model using NLTK & Sci-kit Learn.
- Traded own money with 4.4% returns in 2 months, compared to 2.2% market returns using automated data pipeline on DigitalOcean
- Automatically scheduled retraining of model every week based on new data.

AWARDS

PharmaMES Berlin Keynote Speaker · International Society for Pharmaceutical Engineering Sept. 2018

- Keynote speaker presenting Synapto's AI technology at conference with over 400 attendees.

BioBytes Hackathon, 1st · University of Maryland Feb. 2018

- Designed Arduino and Python programs hosted on DigitalOcean to create device to keep help deaf parents keep track of children.

BMES Design Competition Finalists · Biomedical Engineering Society Sept. 2017

- Finalists in national BMES design competition for \$4,000 top prize.

Medhacks Blue Shield Award · Johns Hopkins University Sept. 2017

- \$1000 award for Python and android app to measure patient response to Parkinson's drug.

Presidential Scholarship · University of Maryland Jan. 2016

- \$32,000 Merit based scholarship to University of Maryland.

SKILLS

COMPUTER: Python, Java, C#, Ruby, Machine Learning, Natural Language Processing, Javascript, HTML/CSS, Linux, Shell Scripting, Matlab, Continuous Integration, C, Ocaml

TOOLS: React, PostgreSQL, Sci-kit Learn, NLTK, Git, Jenkins, Tensorflow, AWS