Kevin Lee

<Active Security Clearance>

EDUCATION

University of Southern California May 2022 B.S. Computer Science - Viterbi School of Engineering University of Edinburgh Semester Study Abroad September 2021 Honors: Army ROTC Full Scholarship, Pathway Oregon Full Scholarship, Armed Forces Award, Dean's List

WORK EXPERIENCE

Microsoft - Software Engineer, Redmond WA (40 hr/week)

- Created Azure Cosmos data pipeline processing over >20TB of user data daily saving over \$14k per month in processing costs
- Continuing to integrate ML frameworks with GPT for real-time detection of emerging issues within Edge feedback system. This involves prompt engineering, writing unit tests, and setting up alerts using Azure functions
- Lead a team of 16 to create a brain scanning tool that processes brain scans that identifies and visualize nuanced subregions within complex brain structures using machine learning, aiding researchers and clinicians in advanced neuroanatomical studies (Winner of 2022 Microsoft Global Hackathon Industry Executive Challenge)
- Ongoing work with Edge (based on Google's Chromium) and building/designing API frameworks in C+++

Broad Institute of MIT and Harvard - Researcher, Boston MA (40 hr/week)

- Laboratory of Dr. Guoping Feng (genomics and neuroscience) while directly reporting to Dheeraj Roy
- Classified spatial scRNA-seq data (MERFISH) to subthalamic nuclei region with machine learning using DAPI/POLYT scans from Allen Brain Institute
- Set up AWS CRUD system using different DB (Dynamo, Microsoft SQL Server) hosted statically on S3 with API creation

U.S Army - Cadet, Los Angeles CA (40 hr/week)

- Improved ML/DL networks to classify cyber attacks with Network Intrusion Detection Systems (NIDS) achieving a experimental accuracy of 96%+ at the U.S Army Cyber Command
- Fulfilled all duties in training and coursework as a cadet at University of Southern California
- Visualized different network data in Kibana, Tableau, and python libraries (Seaborn, Plotly, Matplotlib)
- Field training consists of small-unit tactical operations and land navigation with an emphasis on leadership
- Developed ELK Stack querying log files with Filebeat from Zeek/WireShark to process and monitor in Elastic Security

Red Berry Innovations – Cyber Engineer Intern, Omaha NE (40 hr/week)

- Classified continuous binary sensor data from a CAN bus from a vehicle using convolutional neural networks
- Obtained vehicle information from ambiguous dynamic data to determine vehicle movement and location tracking • without GPS

NASA Jet Propulsion Laboratory – Software Engineering Intern, *Pasadena CA (40 hr/week)* June 2019 – August 2019

- Mars Mission Operations Team developing an RTG power improvement model for an increased efficiency of 8-12% of the Curiosity rover and invited to present at the annual 2020 NASA conference
- Used marginal data analysis to view 500+ sols of each activity execution time using elasticsearch, python data tools (pandas, numpy, plotly), and graphs using d3.js

VOLUNTEER ACTIVITIES

COVID-19 Vaccination Distribution - Sanitation Officer, Corvallis OR

Overlooking vaccine sites ensuring locations are following prompt guidelines for sanitation

Google Developer Student Club - Founder & President, Los Angeles CA

Instituted and led USC organization to assist local NGO's and local businesses in local community in Los Angeles

Global Aid Network (GAiN) - Volunteer, Uganda Africa

· Hosted medical eye clinics and assisted poverty alleviation in rural villages near Kampala and Hoima

Interests: Humanitarian Aid, Sustainable Energy, AI, surfing, flying



Aug 2022 - Present

Sept 2017 - May 2022

April 2020 – June 2020

March 2021 - April 2021

May 2019 - April 2020

May 2022 – September 2022

April 2018