

Cai Lin

cailin0121@gmail.com | www.linkedin.com/in/cai-lin | www.github.com/kai-ion

SKILLS:

Languages: Java, C++, C#, Python, Javascript, HTML/CSS, SQL

Web Development: Bootstrap, React, Sequelize, Flask, Nodejs, Typescript, Django, Jekyll, Json

Data Analysis: Pandas, Scikit-learn, Matplotlib, Seaborn, Plotly

Machine Learning: Logistic & Linear Regression, Decision Trees, Random Forest, NLP, Neural Networks

Other: Git/Github, Shell/bash Script, Linux OS, Docker, AWS, Azure, Linux, Kubernetes, Kafka, and CI/CD pipelines

WORK EXPERIENCE:

Conatix Corp.

Remote, NY

Software Engineer

Jan. 2023 – Present

- Collaborated closely with the lead engineer to construct and train a state-of-the-art neural network model for malware detection, achieving an impressive accuracy rate of 91% in identifying malicious software
- Built a highly efficient reverse engineering software prototype by incorporating NSA's open source framework, Ghidra, leading to a remarkable increase in productivity by 30% and a reduction in development time by 20%
- Developed a comprehensive malware dashboard using Python, Flask, & Docker, leveraging data analysis libraries to dynamically display information, resulting in enhanced data visualization and actionable insights

Software Engineer Intern

Jul. 2022 – Jan. 2023

- Efficiently deployed and scaled the prototype malware software on AWS EC2, reducing response time by 40% for user testing with 500+ concurrent users
- Contributed to the development and maintenance of the company website with full integration of Stripe
- Secured website with Cloudflare and DNS records with GoDaddy, achieving a 99.9% uptime

RFCUNY (HRA of New York and DOE)

Hybrid, NY

Technical Analyst

Jan. 2018 – Jun. 2022

- Expertly resolved software and hardware complications with swift technical troubleshooting skills
- Managed 10+ tickets per day, providing support to faculty members in resolving technical malfunctions
- Assumed the responsibility of monitoring multiple worksites while concurrently training 3+ new staff members

PROJECTS:

J.P. Morgan SWE Experience on Forage, Dynamic Trading Dashboard Development

2024

- Integrated dynamic and interactive data visualization dashboards to support JPMorgan Chase traders by leveraging Python, TypeScript, JavaScript, HTML/CSS, Perspective, node.js, Chart.js
- Engineered a module for real-time monitoring of price movements for two correlated stocks with 95% accuracy
- Rectified issues with patch updates to repositories, achieving 100% application stability and usability improvement

Stock Prices Prediction, Stock Prediction Web Application

2023

- Developed a stock price prediction project using scikit-learn to train a SVR model on Yahoo Finance API
- Deployed the web application using Streamlit library, resulting in a projected 100% increase in user engagement
- Simulated trading strategy based on ML model, yielding a projected 15% higher return over 5 years

ArtifyMe, Image-to-Drawing Image Recognition Web Application

2022

- Create a Web App that allows users to upload images and transform them into cartoon or anime like drawing
- Utilized CNN and GAN machine learning models, for a projected 95% success rate in image transformation
- Implemented customized filter and image adjustment features, resulting in a 50% increase in user engagement

EDUCATION:

CUNY Brooklyn College

Brooklyn, NY

Bachelor of Science in Computer Science

AWARDS & CERTIFICATIONS:

Opportunities for a Better Tomorrow

- Cloud Support Training Program
- Certifications: CompTIA ITF+, AWS Certified Cloud Practitioner

Google Tech Challenge

- 2nd place in Google Tech Challenge 2019
- Collaborated with 5 team members as representatives for Brooklyn College
- Rapidly used problem-solving abilities to resolve engineering & speed coding puzzles