

# Alex Kim

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## EDUCATION

University of Virginia, Charlottesville, VA

Expected Graduation May 2024

B.S. Computer Science with Engineering Business Minor | Cumulative GPA: 3.682/4.0

Relevant Coursework: Computer Architecture, Software Development Methods, Cybersecurity, Linear Algebra, Program & Data Representation, Digital Logic Design, Theory of Computation, Advanced Software Development, Algorithms, Machine Learning, Software Testing, Databases, Operating Systems, New Product Development, Artificial Intelligence, PL for Web Applications

## RELEVANT EXPERIENCE

### MITRE

McLean, VA

Software Engineering Intern (Clearance: DOD-Interim Secret)

May 2023-Present

- **Project:** Given training data shortage problem, independently created a generative AI text model using a Variational Auto Encoder, Seq2Seq architecture, and LSTM to produce training data which improved performance of overall PHIAI algorithm
- Under the PHIAI team, implemented new ML model which consistently achieved accuracies over 95% (outperforming previous model) for the Potential Hazard Identification via AI capability through teamwork and adaptability in AI/ML tech.
- Led integration of PHIAI algorithm API into full-stack web app leveraging Full-Stack skills and teamwork with UI designers

### Red Edge, LLC

Arlington, VA

Web Development Intern

May 2022-Aug 2022

- **Project:** Independently created web-based professional ad dashboard for Red Edge advertisement team allowing users to display important advertisement statistics to clients. Full-Stack tech. used Laravel, React, JavaScript, PHP, & integrated APIs
- Practiced communication, adaptability, & leadership in the software team developing web applications for several politically important clients and Red Edge itself. Independently took the responsibility of fulfilling several clients' full-stack needs

### UVA Development Hub

Charlottesville, VA

Software Development Intern

Aug 2021-May 2022

- **Project:** Practiced teamwork within software team to create agile-managed web application that provided information to university students/visitors about UVA's buildings. Managed/designed homepage user interface through HTML/JS/Bootstrap
- Provided creative software solutions to problems held by organization partnered clients and the UVA community by communicating with the software development team, adapting/learning quickly to new technologies, and critical thinking

### Forge

Charlottesville, VA

"Node" Data Science Trainee

Sep 2020-Nov 2020

- Ten-week data science training camp which taught core data literacy skills including data cleaning/manipulation, machine learning, and web scraping through extensive team-focused problem solving, labs, and Python programming

## PERSONAL/OTHER PROJECT EXPERIENCE

- Independently developing nutrition-focused web application to motivate athletes to make informed dieting decisions through dynamic food recommendation algorithm and full-stack tech. including React, PostgreSQL, Express, & Node.js. 2023-Present
- Led hackathon team to develop and present a stacking classifier-based machine learning algorithm that could identify specific Phishing links out of a set of website links with top-ranking performance at MITRE's Data Science Hackathon. 2023
- Created a Home Collateral Estimation ML Model for banks to use in professional/personal financing operations through regression ML models, data prep/cleaning, and parameter hyper tuning. Wrote Technical Report on work/process. 2022
- Served as a Scrum Master to create an agile-managed full-stack web application that provides users the ability to create/coordinate movie watch parties in a social media format. Utilized Django, MVC Frameworks, & technical APIs. 2022

## ACTIVITIES AND LEADERSHIP

### Theta Tau Engineering Fraternity

Charlottesville, VA

Treasurer/Brother

Jan 2021-Present

- Managed/allocated fraternity finances for professional networking events, service events, and the executive board of officers
- Responsible for semester budgets, adaptability/initiative in financial emergencies, and teamwork with Theta Tau nationals

### Riverside Class of 2020

Leesburg, VA

Class Treasurer and Class Officer

August 2016-June 2019

- Served as a leader for 450+ students with practiced skills in communication, event planning, teamwork, and fund allocation
- Accomplishments: Successfully raised/managed over \$32,000 through events, fundraising, etc., organized/managed events for over 800+ students (Homecoming/Prom), established professional relationships with local businesses and school dept.

## SKILLS AND CLASS PROJECTS

- **Skills:** C++, Python, Java, Bootstrap, HTML, CSS, JavaScript, Docker, Git, Django, Full Stack, ML/AI, LSTM, CNNs, RNNs, Data Science, Keras, jQuery, PHP, Laravel, React, Next.js, SQL, API integration, Deep Learning, End-to-End
- **Projects:** Recognizing UVA Landmarks with Self-Implemented CNN, Boston Housing Prices Predictor using tuned regression ML models, Non-linear Data Classifier using Self-Implemented Neural Network, Bash Script Programming, etc.