# Erica Chang

 ♠ McLean, VA
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 in erica-chang-2021

#### Education

## Virginia Polytechnic Institute and State University

Aug 2021 – Dec 2024

BS in Computer Science

Blacksburg, VA

o Coursework: Software Engineering Capstone, Data and Algorithm Analysis, Mobile Software Development

# Experience

#### **Booz Allen Hamilton**

June 2024 – Aug 2024

McLean, VA

Summer Games Intern

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- Designed and developed an AI software solution to assist the U.S Government in accelerating vehicle maintenance
- Earned a top 5 finalist spot out of 38 intern teams nationwide to present our project to the company's C-suite
- o Developed a full-stack web application integrating a machine learning model and an interactive dashboard
- Conducted feature engineering to enhance model performance, eliminating 80% of model errors and saving ~\$500k yearly
- o Optimized the ML model using AWS, enabling scalable and efficient real-time data processing for future government use

## U.S Department of Homeland Security

July 2022 - Sept 2022

Cybersecurity Intern

Remote

- o Served under the Chief Data Office Directorate (CDOD) to create a Data Sharing Agreement Policy to protect data
- Collaborated on a team of 5 to redesign an internal webpage, implementing low-maintenance, user-friendly solutions
- $\circ$  Researched the future implementation process of zero-trust architecture and its data protection importance
- Applied UX/CX design principles and plain language techniques to improve policy documentation and cybersecurity

# Leadership

# HackViolet Hackathon Virgina Tech

May 2023 - April 2024

Blacksburg, VA

Technology Chair

- Managed and optimized the technology for a Major League Hacking-partnered hackathon averaging 500+ participants
- Designed and managed a Discord server enhancing participant communication, mentor access, and event coordination

# Society of Asian Scientists and Engineers

May 2023 - April 2024

Blacksburg, VA

Secretary

- Managed the SASE listsery, ensuring outreach to 100+ members about development and networking opportunities
- Streamlined weekly emails, increasing attendance at organization-led workshops, career panels, and social events

#### **Projects**

#### HokieGradTrack

Aug 2024 - Dec 2024

- Utilized agile methodology and developed a web application to streamline the tracking of graduate students' progress, improving the VT CS department's efficiency, enhancing student satisfaction, and reducing administration burden
- o Tools Used: MySQL, API Endpoint, React, Node

#### MentorshipHub

Aug 2024 - Dec 2024

- Developed a desktop application to streamline the mentor-mentee matching programs of VT CAMEO to explore club events and student profiles based on academic and professional backgrounds
- o Tools Used: MySQL, Python, Tkinter

## **Hearty Hokies**

Feb 2022

- $\circ \ \ {\rm Developed} \ \ {\rm a} \ \ {\rm desktop} \ \ {\rm application} \ \ {\rm to} \ \ {\rm improve} \ \ {\rm student} \ \ {\rm health} \ \ {\rm at} \ \ {\rm Virginia} \ \ {\rm Tech} \ \ {\rm through} \ \ {\rm providing} \ \ {\rm nutrition} \ \ {\rm resources}$
- o Tools Used: HTML, JavaScript, CSS, Replit

#### **Technologies**

Languages: Java, HTML, JavaScript, CSS, Python, C, Kotlin, SQL

Technologies: VSCode, Eclipse, Git, Android Studio, Jupyter Notebook

Libraries and Frameworks: Numpy, Matplotlib, Scikit-Learn, Pandas, React