

Andrew Tran

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Personal Website: <https://andrewtran03.github.io/>

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EDUCATION

Virginia Polytechnic Institute and State University (Virginia Tech) | Blacksburg, VA **Spring 2024**

B.S., Computer Science | Minor: Mathematics

Cumulative GPA: 4.0 / 4.0 | In-Major GPA: 4.0 / 4.0

M.Eng., Computer Science and Applications

Spring 2025

Relevant Courses: Computer Systems, Machine Learning I, Android Mobile Software Development, Data Analytics and Visualization, Intro to Database Management Systems, Comparative Languages, Data Structures and Algorithms, Computer Organization I/II, Formal Languages and Automata Theory

SKILLS

Java, Python, C, Kotlin, HTML, CSS, JavaScript / TypeScript, XML, SQL, Three.js, Vite, MongoDB, Express.js, Node.js, React.js, Angular, Swift, Cypress.io, Swift, REST APIs, R (Limited), x86-64 / RISC-V Assembly, Git, Visual Studio Code, Eclipse, Android Studio & Jetpack, Jupyter Notebook, Linux / MacOS / Windows, Microsoft Office

EXPERIENCES

Capital One Internship (Technology Intern Program) | McLean, VA

June 2023 – August 2023

Software Engineer Intern

- Developed the Map-Your-Spend Application, allowing for current and prospective Capital One customers to select their personal spending categories and receive dynamic recommendations to encourage saving.
- Redesigned the UI of the Wi-Fi-Landing Page and the functionality of the Digital Coffree Cards in the Ambassador-Powered Experience (APEX) Application, both utilized at Capital One Cafés & Branches to personalize and enhance the in-person and customer-oriented experiences.

Zeta Associates Inc. Internship | Fairfax, VA

May 2022 – August 2022

Software Developer Intern

- Developed a basic understanding of Kubernetes Clusters and Linux Containerization.
- Researched and implemented the newest applications of Unikernels, a specialized, single-address space machine image created by using only required OS libraries to reduce file size and increase performance.
- Designed a containerized DSP Spectrogram Application (with audio-processing functionality) on a Kubernetes Cluster using Three.js, a JavaScript Library / API used for rendering 3D computer graphics on Internet browsers.

Undergraduate Teaching Assistant | Blacksburg, VA

January 2022 – Present

- **CS 3714 (Spring 2023)** – Android Mobile Software Development (Kotlin)
- **CS 2114 (Fall 2022)** - Software Design and Data Structures (Java)
- **CS 1064 (Spring 2022)** - Intro to Programming in Python

Undergraduate Research Assistant | Blacksburg, VA

August 2022 – January 2023

- Researched into the topic of Data Freshness and Age of Information Optimization, a method focused on utilizing non-linear functions to analyze and optimize data network packet transfer.
- Beneficial towards increasing accuracy of data collection and visualization.

Society of Asian Scientists and Engineers (SASE) -- Webmaster | Blacksburg, VA

May 2022 – May 2023

- Developed and maintained Virginia Tech SASE Chapter's Website: <https://sase-vt.org/>.

PROJECTS

We Suck at Cooking Club Mobile App (Kotlin), Auditory Assistant (HTML, CSS, React.js), VT Alerts Forwarding Discord Bot (Python), Twitter Activity Data Analysis (Python / Jupyter), Graph Theory: Cycle Detection Program (Java)

HONORS & EXTRACURRICULARS

VT President's List, VT Dean's List, Long Nguyen and KDF Scholarship, Lockheed Martin STEM Scholar, AWS In-Communities Scholar, Society of Asian Scientists and Engineers (SASE), Vietnamese Student Association (VSA), Google Developer Student Club (GDSC)