Andrew Tran

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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, Cloud Software Development, 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, 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, MatLab

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, both utilized at Capital One Cafés & Branches to personalize and enhance their 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)