COLLIN DUNPHY

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EDUCATION

B.S. Computer Science • Virginia Tech, Blacksburg, VA   May 2025

EXPERIENCE

Research Engineering Intern • Tenable, Inc.   June — August 2023
- Developed an API to expand logging from production jobs to simplify & accelerate troubleshooting
- Integrated APIs into existing CLI tools, resulting in improved security and developer efficiency
- Developed scripts to broaden collection of security advisory details to improve product quality

Software Engineering Intern • NeuroID, Inc.   July — August 2022
- Collaborated with remote engineering team, leveraging Agile methodologies, including participating in daily stand-ups, committing code via GitHub, and efficiently managing tasks and defects in Jira
- Implemented key SDK enhancements to interact with client devices to improve fraud detection

Mobile Application Developer (Contractor) • WeatherAlpha LLC   March — September 2020
- Designed and developed cross-platform mobile application using Flutter, Firebase, and Figma
- Interviewed focus groups to assess product's accessibility, intuitive design, and market value

UNIVERSITY INVOLVEMENT

Director • Student Engineers' Council at Virginia Tech   April 2022 — Present
- Served as a board member and leader of a 501(c)(3) nonprofit with $1M in annual income
- Managed 300+ corporate partnerships to cultivate industry relationships with VT Eng programs
- Directed annual Engineering Expo, the 2nd largest student-run career fair in the US, which resulted in 1500+ jobs and increased annual revenue from $415k -> $800k [93%] over two years
- Collaborated with key university leaders to advance VT Eng objectives supporting 10,000+ students

Undergraduate Research Assistant • VT Department of Computer Science   January 2023 — Present
- Served as a front-end developer for the Computer Systems Genome Project where I implemented crowdsourcing features and an intuitive user experience using React, Next.js, & Typescript
- Developed the "*Hidden Figures*" force-directed graph visualization tool, and created demonstration capabilities for exhibitor presentation at the 2023 Super Computing Conference

Computer Science Ambassador • VT Department of Computer Science   August 2022 — Present
- Fostered interest, support, and fundraising with VT distinguished alumni and high-net-worth donors
- Represented CS department by leading tours, panels, and info sessions for current and prospective students
- Hand-selected as student representative for faculty full-professorship interview on five member panel

PROJECTS

DDK – Diadochokinetic Assess (iOS App)   November 2019 — Present
- Created tool to assist speech pathologists in diadochokinetic rate assessments — 7,000+ installs; 5 stars

SKILLS

Languages: Python, Swift, Java, C, Javascript, Typescript, HTML + CSS, RISC-V, Dart, MATLAB, & Bash/Shell
Developer Tools: VSCode, Agile Methodologies, Git, Docker, Figma, GCP/Firebase, & Jira
Frameworks: React, Next.js, Tailwind CSS, SwiftUI, MUI, & Flutter