COLLIN DUNPHY

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EDUCATION

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

SKILLS

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

EXPERIENCE

President/Director • SECatVT — 501(c)(3) Nonprofit   April 2022 — Present
- Leads a nonprofit supporting 10,000+ engineering students with a $700k+ annual budget
- Oversaw the distribution of $1M+ in philanthropic distributions and $2M+ in revenue over three years
- Directs the second-largest student-run career fair in the U.S., increasing sponsorship revenue by 80% (from $415K to $750K) and facilitating 1,500+ job placements over two years
- Managed 300+ corporate partnerships to cultivate industry relationships with VT Engineering programs

Software Engineering Intern • Deloitte, Inc.   May — July 2024
- Developed a chatbot front-end using React and MUI, enabling users to diagnose manufacturing product errors through large language models (LLMs) with their own data as contextual input

Research Engineering Intern • Tenable, Inc.   June — August 2023
- Created APIs in Python and Flask to enable developers to troubleshoot their production environments which improved DevOps security and efficiency
- Developed scripts to expand collection of security advisory details to improve product quality

Software Engineering Intern • NeuroID, Inc.   July — August 2022
- Implemented new signals in iOS SDK for mobile devices to improve fraud detection capabilities
- 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

UNIVERSITY INVOLVEMENT

Undergraduate Research Assistant • VT Department of Computer Science   January 2023 — Present
- Designed crowdsourcing features and an intuitive user interface for the Computer Systems Genome Project using React, Next.js, and TypeScript
- Developed a 3D kinetic sculpture visualization of LLM processing with 256 Raspberry Pi devices, implementing inter-device communication and management using React, socket.io, MUI, and Ansible

Computer Science Ambassador • VT Department of Computer Science   August 2022 — Present
- Selected to engage with distinguished alumni to foster interest, support, and donations for the College
- Represented CS department by leading tours, panels, and info sessions for current and prospective students
- Hand-selected as a student representative for faculty full-professorship and department chair interviews

PROJECTS

DDK – Diadochokinetic Assess (iOS App)   November 2019 — Present
- Created tool to assist speech pathologists in diadochokinetic rate assessments — 8,000+ installs; 5 stars