

# COLLIN DUNPHY

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## EDUCATION

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**B.S. Computer Science** • Virginia Tech, Blacksburg, VA

May 2025

## SKILLS

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**Languages:** TypeScript, JavaScript, Python, Swift, Java, C, 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, Socket.IO, MUI, & Flutter

## EXPERIENCE

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**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

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**President/Director** • SECatVT — 501(c)(3) Nonprofit

April 2022 — Present

- Leads a nonprofit supporting 10k+ students with a \$700k+ budget, overseeing \$1M+ in philanthropy
- Designed and implemented novel ETL pipeline to replace an antiquated philanthropy management system
- Directs the second-largest student-run career fair in the U.S., raising \$2M+ in revenue over three years by growing sponsorship revenue by 80% (\$415k → \$750k), facilitating 1,500+ job placements
- Managed 300+ corporate partnerships to cultivate industry relationships with VT Engineering programs

**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

- Engages with distinguished alumni to foster interest, support, and donations for the College
- Selected as a student representative for faculty full-professorship and department chair interviews
- Represents CS department by leading tours, panels, and info sessions for current and prospective students

## PROJECTS

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**DDK – Diadochokinetic Assess (iOS App)**

November 2019 — Present

- Created tool to assist speech pathologists in diadochokinetic rate assessments — 10,000+ installs; 5 stars