

# Andrew Della Penna

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## EDUCATION

### Vanderbilt University

*Bachelor of Engineering, Computer Engineering*  
*Minors: Engineering Management, Data Science*

**Nashville, TN**

*May 2024*

**Relevant Coursework:** Differential Equations with Linear Algebra, Microcontrollers, Intermediate Software Design, Discrete Structures, Technology Strategy, Signals and Systems, Finance and Accounting for Engineers, Operating Systems, Data Science, Algorithms, Software Development, Artificial Intelligence, Applications of Machine Learning, FPGA Design

## EXPERIENCE

### Capital One

**McLean, VA**

*Software Engineer*

*Aug 2024 – Present*

- Led an initiative to improve event processes, develop comprehensive documentation, and create a Splunk dashboard for tracking events, enhancing internal partner support.
- Increased unit test coverage for a key service from 20% to over 80% and enforced unit test coverage standards
- Aided a senior developer in implementing DynamoDB into our service to replace the previous database
- Volunteered to teach 6th-8th graders the basics of web development through Capital One's Coders volunteer program
- Provided on-call support, triaged critical production issues, and addressed open-source software vulnerabilities, ensuring high availability and rapid incident resolution for critical distributed systems in a 24/7 environment

### Capital One

**McLean, VA**

*Software Engineering Intern*

*June 2023 – Aug 2023*

- Built an automated end-to-end functional testing suite for customer-facing features on Capital One's credit card website
- Created a Slack bot that utilized multiple backend APIs to automate the creation of credit card test accounts
- Collaborated with interns and full-time employees in both in-person and virtual work environments

### CompE Design Project: Design of a virtual experiment

**Nashville, TN**

*Software Engineer*

*Sep 2023 – May 2024*

- Created a teaching tool to facilitate experiential learning in the electromagnetics curriculum in a virtual format
- Built user authorization, user permission states, database interaction, and page navigation using Google Firebase and React
- Started and managed a team scrum board throughout the project
- Presented the project at the Vanderbilt University School of Engineering's 2024 Design Day

### Vanderbilt University School of Engineering

**Nashville, TN**

*STEM Tutor*

*Aug 2022 - Dec 2023*

- Tutored freshmen, sophomores, and juniors in a variety of STEM courses offered at Vanderbilt
- Held drop-in and one-on-one office hours for a combined 10 hours per week

## OTHER ACTIVITIES

**Study Abroad Student**, CIEE Madrid Engineering and Society

*Jan 2023 – June 2023*

**Founder, Risk Manager**, Phi Delta Theta Tennessee Alpha Chapter

*Apr 2022 – May 2024*

**Mentor**, V-Squared Ambassador, Vanderbilt University School of Engineering

*Aug 2021 – May 2022*

**Ice Cream Salesman**, Southwind Ice Cream LLC ("The Fudgy Wudgy Man")

*May - Aug, 2021 & 2022*

**Dishwasher and Food Prep**, Hank Sauce LLC, Sea Isle City, NJ

*Summer 2021*

## SKILLS AND INTERESTS

**Technical:** Java, Python, C++, C, JavaScript, Typescript, Angular, React, Amazon Web Services (AWS), PostgreSQL, APIs, REST, NLP, Agile Methodology, Cucumber Framework, Cypress, Google Firebase, Quartus, VHDL, AVR Assembly Language, Microsoft Excel

**Certifications/Awards:** AWS Certified Solutions Architect Associate, Vanderbilt University Dean's List, Microsoft Certification for Software Development Fundamentals, Rochester Institute of Technology Computing Medal

**Interests:** Computer Engineering, Software Engineering, Data Science, Backend, Full Stack, Machine Learning, Artificial Intelligence, AWS, Cloud, Project Management, Consulting, Finance