

## Sebastian Borromeo

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### EDUCATION

#### University of Virginia, School of Engineering and Applied Science

B.S. Computer Science, Minor in Data Science

Charlottesville, VA

May 2025

GPA: 3.59

**Relevant Coursework:** Software Engineering, Data Structures and Algorithms, Computer Systems and Organization, Data Science Systems, Communicating with Data, Statistics, Probability, Discrete Math and Theory, Artificial Intelligence, Programming Languages, Machine Learning, Cloud Computing

### SKILLS

**Languages:** Proficient in Java, Python, JavaScript, TypeScript, HTML, CSS. Competent in R, C/C++, PHP, SQL, NoSQL, SASS

**Libraries and Frameworks:** Proficient in React.js. Competent in Node.js, Next.js, SvelteKit, Django, TailwindCSS, typeORM, Prisma, pandas, scikit-learn, TensorFlow, Keras, GSAP, Framer Motion

**Technology and Methodologies:** Figma, Git, Postman, Jupyter, Google Colab, Google Apps Script, cPanel, Agile Methodologies, REST Services, CI/CD Techniques, Cloud Development, Full Stack Development, JIRA, Vercel, AWS S3, MongoDB

### WORK EXPERIENCE

#### University of Virginia School of Engineering and Applied Science Tutor, UVA

Sep 2024 – May 2025

- Tutored 2-3 undergraduate students a week in the courses Data Structure and Algorithms, Computer Systems Organization, Calculus II and III, and Discrete Math and Theory.

#### Software Developer Intern, WattBuild, Charlottesville, VA

Jun 2024 – Nov 2024

- Developed a user-friendly interface and underlying logic for a web application to assist users in discovering their current energy usage and a variety of solar-based energy options specifically fitted to their needs.
- Collaborated with supervisor in an iterative design process, creating wireframes and models in Figma to ensure accurate and efficient translation of requirements into specific features.
- Implemented using TypeScript, Svelte, SvelteKit, typeORM, PostgreSQL, and TailwindCSS ensuring seamless integration with existing systems.

### RELEVANT PROJECTS AND PUBLICATIONS

#### Organization of Young Filipino Americans at UVA Official Website

Fall 2023 - May 2025

- Migrated original static website to React.js using Vite and React Router with CSS modules. Wrote clear documentation to aid future students in learning web development.
- Moved to a Client-Server Architecture introducing the website's first backend, which was designed as a RESTful API in PHP. Built into the API a request-response cycle, a routing mechanism that allows routers and the functions called at specific endpoints to be added efficiently, and a middleware stack system allowing authentication middleware which uses JWT to protect restricted endpoints.
- Deployed backend to a subdomain to handle data retrieval and manipulation of our MySQL database. Built the merchandise page that uses the endpoints to get and manipulate the data by authorized users from the frontend.
- Configured and deployed the website through the organization's shared hosting provider which used cPanel, writing specific rules that ensured protected files could not be accessed as well as directed paths to either the website or the API.

#### Senior STS Thesis – Published in UVA Libra: “[Expertise and Policy Influence of W3C’s Web Content Accessibility Guidelines \(WCAG\)](#)”

May 2025

#### College Apartment Listing Website

Fall 2023

- Collaborated with a team of 5 to design and build a website, employing scrum methodology for a course's final project. Built using Django, Bootstrap5, jQuery, Google Maps API, and deployed on Heroku with Git as the version control.
- Adopted agile approach meeting once a week to discuss progress in each sprint, current schedule, and assigned/reassigned tasks using Jira.
- Implemented CI/CD pipeline integrating JUnit and Selenium for automated testing.
- Built the apartment listing Model, View, and Template; Served as the team's UI/UX designer developing original mockup and wireframes as well as conducted interviews with beta testers to improve overall experience.

#### ETL Pipeline and Analysis of Super Bowl Data

Fall 2023

- Designed and implemented an ETL pipeline to process and analyze Super Bowl data from a variety of sources including both structured and unstructured data from two SQL databases, csv, and public API data. Compiled into an organized data warehouse with a fact table and several dimension tables to make analysis easier. Queried results and examined correlations/trends using graphs.

### LEADERSHIP, HONORS, AND EXTRACURRICULAR ACTIVITIES

#### Organization of Young Filipino Americans at UVA, Webmaster

March 2023 – Mar 2024

- Utilized Google Workspace, Apps Script, and Excel to create tools for my peers that assisted in tasks such as sending emails to more than a hundred members, tracking orders, and organizing information.
- Planned and managed event *Filipino Food Night* which served cultural dishes to more than 150 patrons from UVA and the greater Charlottesville community. Raised over \$1,000 towards the organization's annual scholarship.

#### Giving Voice to Values Training, UVA

Jan 2023 – May 2023

- Ethics training focused on an action-oriented approach to values-driven leadership.