

# Elizabeth Trundle

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## EDUCATION

University of Virginia, Charlottesville, VA

Expected May 2024

- **Bachelor of Arts Degree:** Major: Computer Science, Minor: Data Science
- **GPA:** Major 4.0/4.0, Overall 3.9/4.0
- **Relevant coursework:** Software Engineering, Computer Architecture, Cybersecurity, Database Systems, Algorithms, Program & Data Representation, Data Visualization, Theory of Computation, Sound Design, Discrete Mathematics, Statistics

## SKILLS

- **Programming and Scripting Languages:** Python, C++, Java, JavaScript, SQL, R, HTML, CSS, X86 assembly, C
- **Frameworks and Tools:** React, Git, Xcode, Docker, Unix, Node.js, Google Cloud Platform, Postman, Tableau, D3.js, PyGame/GUI, Adobe Photoshop/Illustrator, Excel, HTTP Servers, Shell Scripts, CLI, Reaper, Audacity
- **Language skills:** Proficient in Spanish

## EXPERIENCE

Undergraduate Instructor's Assistant

August 2022 - Present

University of Virginia, Charlottesville, VA

- Assist course instructor for CS 2130 (Computer Systems and Organization) by proctoring labs as the head TA, holding individual office hours, grading homework's, labs, and quizzes, and creating and teaching weekly review PowerPoints
- Collaborate closely with other students in explaining technical topics on computer architecture hierarchy, low-level code in C and Assembly, storage in memory, and hardware design to create a successful and welcoming learning environment

Software Engineer Intern

May 2022 – August 2022

Solipay Tech, New York City, NY

- Worked as a Full Stack Engineer in Mobile App Development at start-up Fintech company with Agile practices
- Updated GCP logging and error-handling of codebase and cloud-based environment in the backend, implemented unit and integration testing, set up weekly formatted emails to filtered users, manipulated SQL data, exposed API endpoints
- Used Xcode and React Native on the frontend to develop IOS and Android app: styled login and home screen, added email verification check when creating accounts, created new user onboarding slides, included personal data visualizations/designs

Social Committee Member

April 2021 – May 2022

UVA Second Year Council, Charlottesville, VA

- Organize and plan events for 50-500 grade-wide student attendees such as tailgates, family weekend brunch, formal, dinner series: managing budgets, catering, outside guests, and decorations
- Communicate with students, professors, Alumni Association, and event guests to solidify relationships/promote teamwork
- Elected as 1 of 50 students to represent grades needs, solve conflicts, and build class identity through biweekly meetings

## PROJECTS

Implementing Data Structures

January 2022 – May 2022

- Implemented self-designed fully functioning advanced data structures in high level C++ such as linked-lists, stacks, queues, hash tables, heaps, trees, and graphs in Program and Data Representation
- Designed and optimized projects such as postfix stack calculator, word puzzle solver, Huffman coding, topological sort, traveling salesperson, and sliding 8 puzzles
- Constructed machine-level and assembly programs including math operations, quines, bubble sort, merge sort, linear search

Visual graphics

February 2022

- Created a data-driven dynamic visualization for final project in Data Visualization with combined use of HTML, CSS, SVG, JavaScript/D3, Adobe Illustrator, and Tableau to depict how geographic location affects marriage rates in the United States
- Used graphical and organizational principles of visual design to generate causal and contextual readings of information

PyGame Game Development

November 2020

- Designed and tested Sharks and Minnows Python game for individual final project in Introduction to Programming
- Included hundreds of lines of fine-tuned code, graphics, static and animated sprites, moving enemies, scrolling levels, a health bar, multiple attainable levels, and save points

## ACTIVITIES

- **Recruitment Data Assistant, Kappa Alpha Theta**, Charlottesville, VA, Fall 2021-Present
- **Student Mentor/Tutor, JABA FISH Program**, Charlottesville, VA, Fall 2021-Present
- **Member, Cybersecurity club**, Charlottesville, VA, Fall 2020-Present