

Samantha Zheng

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EDUCATION

Virginia Tech
Bachelor of Science
Majors: Computer Science, Computational Modeling Data Analytics
Minor: Mathematics

Blacksburg, VA
Aug 2021 - May 2025

Relevant Coursework: Software Design & Data Structures (Java), Computer Organization (C), Problem Solving in Python, Discrete Mathematics, Linear Algebra, Multivariable Calculus, Statistical Methods

PERSONAL PROJECTS

Music Discovery App

Tools: Python, Flask, Spotipy, Spotify Web API, OAuth 2.0, HTML/CSS, AWS Elastic Beanstalk

- Leveraged Python Flask, Spotify API, and OAuth2 for secure user authentication and data retrieval
- Designed a user-friendly interface with Jinja2 and HTML, effectively managing API exceptions
- Prioritized data security through secure encryption and storage of user tokens and API keys

Recipe Generator App

Tools: React.js, React Hooks, React Router, Spoonacular API, JavaScript, HTML/CSS, Node.js, AWS Amplify

- Implemented asynchronous API calls to the Spoonacular API for fetching and displaying recipes
- Incorporated react-router for seamless in-app navigation, enhancing user experience and overall usability
- Utilized React Hooks for efficient state management and data fetching ensuring responsive application

PROFESSIONAL EXPERIENCE

Y Stem And Chess

Remote

Front End Developer Intern

Jan 2023 – March 2023

- Developed 7+ engaging web pages using HTML/CSS/JavaScript, enhancing the organization's UX/UI
- Utilized Git and VS Code for efficient version control and code integration to the main repository

Zaxby's

Chantilly, VA

Cashier

June 2021 - Jan 2022

- Trained new employees on restaurant operations and service protocol, expediting the onboarding process
- Boosted sales via collaboration with management in the promotion of new menu items and special offers

LEADERSHIP AND ACTIVITIES

SolarCar Design Team

Virginia Tech

Member, Telemetry Subteam

- Leveraged Python and Matplotlib, Tkinter libraries to develop a dynamic UI displaying real-time car data
- Researched CAN bus systems, driver UI, and wireless transmissions, enhancing team knowledge base

Galipatia

Virginia Tech

Upper Class Leader

Aug 2023 - May 2023

- Planned and coordinated 10+ pro-dev events, consistently achieving a high satisfaction rating of 4.5/5
- Handled material procurement, budgeting, attendance, and bi-weekly reporting to oversight committee

Member

Aug 2021 - May 2022

- Proactively participated in pro-dev events, deepening understanding of diverse engineering fields
- Engaged in insightful discussions with community, expanding professional network and knowledge base

HONORS

Pratt Engineering Scholarship, Richard H. Warren Scholarship