

# Vincent Song

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## EDUCATION

**University of Virginia**, Charlottesville, VA

Expected Graduation: May 2025

*Bachelor of Science, Computer Science, GPA 3.795/4.0*

- **Relevant Coursework:** Data Structures & Algorithms 1 + 2, Computer Systems & Organization 1, Software Development Essentials, Discrete Math and Theory 1, Advanced Software Development

**West Springfield High School**, Springfield, VA

August 2017 - June 2021

- *Advanced Studies Diploma, UW GPA: 3.9, W GPA: 4.5, Honor Roll, AP Scholar Recipient*

## WORK EXPERIENCE

**Engineer Intern** | Vali Cyber | Charlottesville, VA

June 2023 – July 2023

- Developed an automated Quality Assurance system involving extensive automation of Linux machines via Bash scripting, networking principles, and service administration.
- Organized the automation of creating/removing enterprise services in Docker and bare metal configurations on testing machines, ensuring their accessibility to customers while operational.
- Automated administrative actions on Linux servers, emulating real-world business operations, and implemented a robust testing process that ensures services are up, responding as expected, and producing a report on the results, including any false positives.

**Teaching Assistant** | University of Virginia | Charlottesville, VA

January 2023 – May 2023

- Assisted in the preparation and delivery of course material for CS 2130, a foundational course in computer science. Topics include hardware design, data/process representation, command-line tools, and C coding.
- Provided personalized feedback to students on their assignments and projects, helping them improve their technical and problem-solving skills.
- Collaborated with faculty to create new approaches to teaching challenging concepts and led review sessions and office hours to support student learning.

**Website Coordinator Intern** / TRTCLE, Inc. / New York, NY

August 2022 – December 2022

- Updated, added, and managed the data input for users on the front end for over 60 courses, using HTML.
- Assisted with customer relationship management (CRM) system and team.
- Reviewed and analyzed the different types of courses and the information utilized in the system.

## SKILLS

- **Languages:** Java, Python, C++, HTML, CSS, JavaScript, C#, SQL, Bash, Kotlin, R
- **Tools:** Microsoft Office, Visual Studio Code, Git, VIM, Unix/Linux, IntelliJ IDEA, Docker
- **Frameworks:** React, Flask, Ruby on Rails

## PROJECTS

**Course-Sync**

July 2023 – August 2023

- A student enrollment database management system for Windows desktop applications written in C++, utilizing PostgreSQL database and Win32 API, implementing CRUD functionality for administrator, faculty, staff, and student roles to manage users, courses, and grades.

**Zero-to-Production**

May 2023

- Managed user authentication, curated templates, and personalized delivery of email newsletters using Rust & Docker. Ensured data integrity, security, and performance with PostgreSQL & Redis, aiming for a reliable, efficient email system.

**Snippetbox**

January 2023

- A full-stack web application written in Go, featuring user authentication and authorization, CRUD functionality for text snippets, RESTful routing, middleware, MySQL database integration, SSL/TLS web server with HTTP 2.0, generated HTML via Golang templates, and CSRF protection.

## CERTIFICATIONS

- **Microsoft Certified: Azure Fundamentals**, Microsoft

August 2022

- **AWS Certified Cloud Practitioner**, Amazon Web Services (AWS)

June 2022

## AWARDS

**1st Place Hack TJ 7.5 EastBanc: TransitIQ**

December 2020

- Created Python app using TransitIQ API to track Houston metro bus transit times; utilized Flask, HTML, and CSS for web frontend.