



Ignas Volčokas

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EDUCATION

Washington and Lee University

Lexington, VA, USA

Major: *B.Sc Computer Science*; **Cummulative GPA: 3.97/4.00**

Sep 2021 – May 2025

Minor: *Philiosphy*

Relevant coursework: Software Development, Computer Organization, Programming Language Design, Algorithm Design and Analysis, Discrete Mathematics, Linear Algebra, Multi-Variable Calculus, Data Structures, Econometrics

Achievements: Dean's List 2021-22 and 2022-23, HooHacks Hackathon 2nd Place, Semester at Sea Full Scholarship

Clubs: GenTech Club, Volleyball Club, Ping Pong Club, Amensty International.

Honor Societies: Phi Beta Kappa, Phi Sigma Tau

United World College in Dilijan

Dijian, Armenia

International Baccalaureate; **GPA: 41/45**

Sep 2019 – May 2021

SKILLS

Languages: Python and Java (*Proficient*); JavaScript, TypeScript, C++, HTML, CSS, Haskell, PHP, Bash

Technologies: Git, GitHub, Unix, MySQL, Flask, Node.js, SciPy, Matplotlib, AWS, Microsoft Office, Excel, Stata

PROJECTS

EsyLearn | [GitHub](#)

- EsyLearn was completed during the HooHacks 2023 Hackathon. Using JavaScript, Python, and CSS, we created a website serving as an audio interface with ChatGPT, enabling vocalized requests and responses.
- APIs used: Flask, SpeechRecognition, Recorderjs, OpenAI.

Rocket Mouse | [GitHub](#)

- A infinite runner video game written in TypeScript that utilizes Node.js. I followed a tutorial to complete this project and went further by implementing my own feature - power-ups.

Automated Daily Email | [GitHub](#)

- A Python project that sends a daily email to me with a reminder to fill out a daily tracker form, sends news of the day, a picture of a dog and upcoming weather in the selected locations.
- Introduced myself to cloud computing and deployed the project to AWS as a Lambda function.

WORK EXPERIENCE

Computer Science Teaching Assistant

Sep 2022 – Present, Part-time

Washington and Lee University

- Helping out in introductory programming courses. Answering student questions and guiding them in Python Labs and Office Hours. Mostly focusing on fundamental coding concepts and data structures. \approx 6 hours a week.

Research Experience

Jun 2023 – Aug 2023, Full-time

Washington and Lee University

- 10-week research experience. Project titled: Applying Genetic Algorithms to Generating Cost-Effective Test Cases for Web Applications. Supervised by Prof. Dr. Sara Sprenkle. Currently working towards a Conference Paper.
- Implemented and Compared Hill Climbing, Simulated Annealing, Genetic and Greedy algorithms for automatic test case generation in Python. Generated and analyzed data. Libraries used: Pandas, Matplotlib, SciPy, NumPy.

EXTRACURRICULAR ACTIVITY

General Technology "GenTech" Club

Event Coordinator, Executive team

2022 – Present

- Organizing and overseeing coding projects for students, aiming to bring the community together through technology.
- Organizing practice coding sessions for the student body. Topics addressed: Algorithms, Object-Oriented Programming, Design Practices.