Ignas Volčokas

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Education

Washington and Lee University — Lexington, VA, USA
Major: B.Sc Computer Science; ***Cummilative 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 2^{nd} Place, Semester at Sea Full Scholarhip

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.