Ignas Volčokas

+1 540 206 4595 | ignasvolcokas@gmail.com | LinkedIn | GitHub | Portfolio |

Education

Washington and Lee University — Lexington, VA, USA
Major: B.Sc Computer Science; ***GPA: 4.00/4.00*** — *Sep 2021 – May 2025*
2nd Major: B.A Degree in Economics; ***GPA: 4.00/4.00***
Cummilative **GPA: 3.97/4.00**

Relevant coursework: Software Development, Computer Organization, Programming Language Design, Algorithm Design and Analysis, Descrete Mathematics, Linear Algebra, Multi-Variable Calculus, Calculus II, Mathematical Proofs, Econometrics, Statistics for Economics

United World College in Dilijan — Dijian, Armenia
International Baccalaureate; ***GPA: 41/45*** — *Sep 2019 – May 2021*

Skills

Languages: *Python*, Java, JavaScript, TypeScript, C++, HTML, CSS, Haskell, Bash

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

Experience

Teaching Assistant — Lexington, VA, USA
Washington and Lee University, Computer Science Department — *Sep 2022 – Present, Part-time*

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

Summer Research Scholar — Lexington, VA, USA
Washington and Lee University — *Jun 2023 – Aug 2023, Full-time*

- 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. Worked at high-level of abstraction; generated, and analyzed data. Libraries used: Pandas, Matplotlib, SciPy, NumPy.

Editorial Associate — Lexington, VA, USA
Washington and Lee University — *Jan 2022 – Present, Part-time*

- Working for Prof. Dr. Krzysztof Jasiewic who was *EEPS* journal's Head Editor.
- Proofreading new issues of the Journal. Created a database with information from all previous published articles.

Awards & Achievements

HooHacks Hackathon 2nd Place in Education category. HooHacks is the biggest Hackathon in Virgnia. (Apr 2023)

Dean's List 2021-2022, 2022-2023: Awarded to top 30% full-time students for the given academic year.

Semester at Sea Davis UWC Scholarship: Awarded Full Scholarship to study on Semester at Sea Fall 2023 program. Semester at Sea is a study abroad program where students study on a ship and sail around the world.

United World College National Nomination: Awarded Full Scholarship to study in United World College, 1 out of 3 people selected from Lithuania.

Projects

EsyLearn | *GitHub*

- EsyLearn is a project completed in HooHacks 2023 Hackathon by me and a peer. We used JavaScript, Python and CSS to create a website that served as a personal learning assistant. Once a question is asked outloud the website sends a request to ChatGPT model. Then the recieved answer is read outloud and also displayed in text. 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. Utilized software development principles: single responsibility, modularity, and abstraction.

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 selected locations. Introduced myself to cloud computing and deployed the project to AWS as a Lambda function.

YouTube Video Downloader | *GitHub*

- A python a project that downloads all opened YouTube video links by leveraging PyAutoGUI and PyTube libraries. Great tool to prepare for travels where internet connection is scarce.

Extracurricular Activity

General Technology Society at Washington and Lee

Event Coordinator, Executive team *2022 – Present*

- Bringing the community together through technology. Organzing and overseeing coding projects by students.
- Organizing practice coding sessions for the student body, teaching people how to approach logical and technical questions. Topics addressed: Algorithms, Object-Oriented Programming, Design Practices. Organized around 8 sessions last term.

Amnesty International at Washington and Lee

Member, Executive team (2021-2022) *2021 – Present*

- Memeber of the Amnesty International Chapter. Took minutes, scheduled meetings, improved communications between members by sending out individual to-do lists.
- As a member organized informational and fundraising events. Collected around $5000 in donations for different relief organizations.

Volleyball Club

Member *2019 – Present*

- Part of the university volleyball club team.
- I was the captain and leading practices in my high school volleyball club my senior year.