Jiyan M. Ayhan

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Education

The George Washington University, Computer Science BS & Philosophy BA

August 2021 - Present

GPA: 3.87

Ege University, Computer Engineering

September 2019 - June 2021

GPA: 3.41

Experiences

Undergraduate Research Assistant, The George Washington University

May 2022 - August 2022

- Implemented load balancing algorithms with C
- Built automation scripts with Python, that measures throughput and energy consumption of a client-server system
- Setup networks using cloud computers, in CloudLab
- [Github Repo](#)

Software Developer, Moradam, Istanbul, Turkey

September 2020 - June 2021

- Developed and maintained web applications
- Gained backend development experience with Node.js and MySQL

Technical Assistant, TNT, Istanbul, Turkey

June 2018 - September 2018

- Repaired and replaced mobile phone parts

Extracurricular

President of [Game Development Club](#), The George Washington University

August 2022 - Present

- Started a student organization, and am serving as its first president
- Club's purpose is to bring students who are interested in game development and design, and encourage them to form teams, develop games and join game jams

Tourism Delegate, Fatih Municipality, Istanbul

June 2017 - September 2017

- Guided tourists around historical tourist attractions and museums in Istanbul.

Personal Projects

Portfolio Website
- Responsive design with HTML, CSS, JS

Blitzkrieg
- 3D Tank combat mechanics, developed with C++ and Unreal Engine
- Demo Video

Chat Application
- Developed a chat application using Java
- Create channels with ServerSocket
- Enabled multiple users to connect to servers, sending and receiving messages

Google Review Scraper
- Programmed a google map review scraper using Puppeteer.js
- Output reviews of a place in Google Maps, in JSON format

Blog Website
- Add and remove blog entries to MondoDB database, Node.js app

Class Projects

OS Container Operating Systems
- Develop a container management system (similar to Docker) in xv6 operating system
- Added new features: threads, new kernel locks, new scheduling algorithm
- Containers are able to use only a restricted number of system resources
- Each container only has access to a subset of the file system

Shopping Service Databases
- Developed a shopping website, using Flask and Sqlite3
- Users can sign up, edit their cart and checkout

Shell Application Systems Programming
- Built a command line shell application with C
- Allowed to create pipelines, run background tasks and redirect program output to files

Technical Skills

Programming Languages: C/C++, JavaScript, Python, Java, Bash Shell, SQL (MySQL, SQLite3), NoSQL (MongoDB), GDScript

Frameworks/Tools:
- **Web:** HTML, CSS, Node.js, Express.js, Puppeteer.js,
- **Game Development:** Unreal Engine 5, Godot, Adobe Photoshop, Aseprite
- **Others:** Git, Github, Docker

Additional Information

Languages: English, Turkish, Kurdish