

Tegran Grigorian

Grand Rapids, Michigan

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EDUCATION

Grand Valley State University | Allendale, Michigan

August 2028

Bachelor of Science in Engineering, Computer Engineering

GPA: 3.82

Related Coursework: Engineering-Design, Programming for Engineers, Computer Science 1

PROFESSIONAL EXPERIENCE

Westwood AI

Grand Rapids, Michigan

Software Intern – Scrum Master

June 2024 – Present

- Led a team of six interns using Agile methods to improve team coordination and throughput by 20%.
- Developed Machine Learning models with Ultralytics to automate visual detection of anomalies.
- Engineered a robust back-end REST API in C# to process Unmanned Aerial Vehicle inspection data—including images, flight logs, and GPS—while structuring outputs for AI model training.
- Designed and implemented scalable database organization strategies to manage high-volume of Unmanned Aerial Vehicle data, ensuring efficient storage and retrieval.
- Implemented a Python script that automated PDF report generation for insurance claims, improving efficiency and accuracy.

PROJECT EXPERIENCE

YouTube to MP3/MP4 Converter

- Developed low-level systems using Rust to convert YouTube videos into downloadable file formats.
- Implemented safe multi-threading algorithms to increase video conversion time by 90%.
- Designed an intuitive GUI in Rust to replace command-line interaction, improving usability and accessibility for non-technical users.
- Engineered cross-platform support for Windows and Linux, enhancing user adoption and strengthening system portability.

“Woodix” – Kernel from Scratch

- Built a custom operating system kernel in Rust, C and Assembly modeled after Linux 1.0.
- Implemented a boot loader, kernel scheduler and system call interface to manage low-level hardware operations.
- Designed a simple file-system and loader/linker mechanism to support program execution.
- Developed keyboard and VGA drivers in Rust/C to provide input and display support for the kernel.
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TECHNICAL SKILLS

Programming Languages: Rust, Python, C/C++, C#, Java, JavaScript, Bash, PowerShell

Cloud & Infrastructure: AWS (EC2, S3, IAM, Lambda, RDS)

Development Tools: GitHub/git, Docker, CI/CD, REST APIs, VS Code, DBeaver, MATLAB, Linux, Windows.

Technical Software: SolidWorks, Microsoft Office Suite, Microsoft SQL Server, MATLAB

HONORS & AWARDS

2024 Vex Robotics State Champion

ORGANIZATIONAL INVOLVEMENT

GVSU Hacker Attack Things (HAT) - Member

CERTIFICATIONS

Solidworks Associate

April-2025