MOUMIN GANI

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SUMMARY

Software and data engineer with 1+ year of experience designing and implementing scalable internal tools, automation systems, and AI-driven applications. Skilled in Python/Django development, computer vision (OpenCV, Tesseract), and full-stack system design. Adept at building modular architectures that enhance productivity and streamline workflows.

EDUCATION

BS in Computer Science & Data Analytics | University of Washington — **Graduated June 2025**

- Dean's List (Winter 2024 & Spring 2024) | **GPA: 3.7**

EXPERIENCE

Software Engineer Intern | T-Mobile Jun 2025 – Sep 2025

- Accelerated 5G deployment by designing and implementing **Python/Django applications** for Radio Access Network (RAN) automation, reducing manual field team effort by **30%**.
- Designed and deployed automation scripts that **interfaced with live 5G network devices** and stored configurations in **BeaverDB and SQLite**, improving configuration speed and contributing to a **15% faster** coverage expansion.
- Streamlined workflows by leveraging **agentic AI models** (via **GPT Enterprise**) to automate documentation and testing, increasing developer productivity by **25%** across a team of 6.

Software Engineer | AMAC Sept 2024 – Dec 2024

- Architected and implemented **data pipelines that analyzed over 500K records** of community voter data from **CSV datasets**, enhancing strategic insights for stakeholders.
- Automated key data transformations and integrations, increasing throughput and reliability by **40%**.
- Integrated **Meta's Llama 3.1 AI** for data validation, achieving **90%** accuracy in demographic classification.

Software Engineering Intern | iCode Jun 2024 – Aug 2024

- Developed an **AI-powered automation system** that reduced manual workflows by **70%** and improved task efficiency.
- Re-engineered backend architecture for real-time data processing, boosting responsiveness by **25%**.
- Refactored legacy code into modular components for **99.9%** uptime and maintainability.

PROJECTS

OptiParse

- Designed and implemented a **Python-based OCR system** using OpenCV and Tesseract to extract structured text and numerical data from complex visual interfaces with **95%+ accuracy.**
- Built a **modular image preprocessing pipeline** and **custom RESTful API** for scalable integration and automation.
- Architected a **data parsing and validation system** that automated dataset generation and analytics integration, improving processing throughput by **40%**.

Heartwood Engine

- Designed a **modular C# application framework** for real-time state management and extensibility, **leveraging LLM-assisted scaffolding (Codex)** for rapid initialization, then manually refactoring and optimizing all core systems.
- Architected a c**ustom entity-component-system (ECS) pattern to decouple data**, **behavior**, and **execution logic**, improving maintainability and scalability.
- Developed core subsystems for **state updates**, **event handling**, **persistence**, and **rendering abstractions**, enabling future feature expansion.

SKILLS

Programming & Data: Python (OpenCV, Tesseract, Pandas, NumPy), C#, Java, JavaScript, SQL, REST APIs

Frameworks & Architecture: Django, FastAPI, ReactJS, ECS Architecture, MVC

AI & Automation: GPT Enterprise, Llama 3.1, Codex, Computer Vision (OCR, Image Processing)

Tools & Collaboration: Git, GitHub, VS Code, Docker, Bash, Miro, Jira