

Omar Rizwan

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EDUCATION

University of Utah, Salt Lake City, Utah
Bachelor of Computer Science (Honors)
• Dean's List 2023-2025

GPA 3.6/4.0
May 2027

RELEVANT COURSEWORK

- Software Engineering I/II, Data Structures and Algorithms, Databases, Distributed Systems, Machine Learning

RELEVANT EXPERIENCE

Brenner Software (Remote/Salt Lake City) **Spring 2026 - Present**

Full-Stack Software Engineering Intern (Part-Time)

- Led full-stack feature development for a production SaaS platform using Angular, TypeScript, and C# (.NET).
- Integrated backend services: built REST APIs with SQL Server, caching, and role-based authorization.
- Developed infrastructure enhancements: implemented background jobs and monitoring for system reliability.
- Monitored production performance: diagnosed issues, resolved bugs, and supported live deployments.

OneMain Financial (Salt Lake City) **Summer 2025**

Software Engineering Intern

- Led a production software transition by implementing backend services using C# and SQL.
- Integrated backend features by building and optimizing APIs for credit checks and database performance.
- Monitored system reliability by analyzing database and API performance in production.

OneMain Financial (Salt Lake City) **Spring 2025**

Software Engineering Intern (Part-Time)

- Maintained and extended .NET (C#) applications, including TaskMaster and NuBuild auto-approval workflows.
- Developed and scheduled SQL Server batch jobs with monitoring, retry, and failure-handling logic.
- Built and automated alerting pipelines to detect job failures and operational anomalies.

University of Utah (Salt Lake City) **Fall 2025 - Present**

Machine Learning Engineer Intern

- Deployed a full-stack Retrieval Augmented Graph search system using React and Python.
- Vectorized a 59GB Solr index (9M records) into a dense vector database, reducing search latency by 50%.
- Built CUDA-optimized pipelines with custom loss functions, achieving 2× faster embedding ingestion.

PROJECTS

- Investify-AI (Python, HTML, CSS, JavaScript): [GitHub.com/ozr0013](https://github.com/ozr0013)
- UDN-Retrieval Augmented Generation(Python, CUDA, HuggingFace): [GitHub.com/ozr0013](https://github.com/ozr0013)
- Spreadsheet (C#, HTML and JavaScript): [GitHub.com/ozr0013](https://github.com/ozr0013)
- Portfolio (C#, HTML): <https://ozr0013.github.io/Portfolio-Website/>

TECHNICAL SKILLS

- **Programming Languages:** Java, C#, C++ ,Python, JavaScript, Golang
- **Web & Cloud Development:** Spring Boot, Blazor, MERN Stack, AWS (EC2, S3, RDS, IAM), HTML/CSS
- **Specialties:** Data Structures, Algorithms, Multi-threading, Distributed Systems, Databases (SQL, MongoDB)
- **Machine Learning & Data Analysis:** TensorFlow, PyTorch, Scikit-Learn, Pandas, NumPy.

ORGANIZATIONS

- **Oxford University Consortium:** Participated in Human Rights and AI program in Oxford, England.
- **Association for Computing Machinery (ACM):** Active member and collaborator.
- **Robotics Club:** Actively participating in robotics projects, enhancing hands-on technical skills.
- **Beta Theta Pi Fraternity:** Actively involved in philanthropic initiatives and community service.