

# Al Rifat

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## EDUCATION

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**University at Buffalo**, The State University of New York Buffalo, NY  
*Bachelor of Science in Computer Science* May 2025  
**Relevant Coursework:** Data Structure, System Programming

**Pace University** New York, NY  
*Bachelor of Science in Computer Science* September 2021 – December 2022  
**Dean's List: Fall 2021, Spring 2022**  
**Relevant Coursework:** Data Structure and Algorithms, Unix and C Programming, Discrete Mathematics

## EXPERIENCE

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**Optum – UnitedHealth Group** Hartford, CT  
*Software Engineer Intern* June 2023 – December 2023

- Contributed to the end-to-end implementation of an ongoing idea tailored for UHG's advocates handling substantial daily member inquiries, emphasized continuous feedback and analytics integration
- Collaborated within an Agile team, contributing to the design and implementation of software solutions. Wrote comprehensive user stories and defining feature requirements that ensure with project goals and stakeholder's needs
- Led the design and development of a robust database management system. Applied SQL queries to enhance data retrieval and storage efficiency, with a focus on future-proofing the system
- Utilized Salesforce, Java (Apex), JavaScript, and MySQL in the development process and seamlessly deploy application to Google Cloud's Kubernetes infrastructure

**Seidenberg Creative Labs – Pace University** New York, NY  
*Software Engineer Intern* June 2022 – January 2023

- Developed a Full Stack employee management system using Express.js, MongoDB, and Amazon S3. This system streamlined administrative tasks, allowing for efficient management of members and applications
- Collaborated within a team of engineers to deliver robust solutions that meet client requirements for functionality, scalability, and performance
- Conducted research to identify and propose innovative tools, technologies, and solutions, demonstrating a proactive approach to enhancing production applications and internal processes
- Implemented Agile methodology to modernize existing code bases, establishing development standards, setting goals, and engaging with clients to discern project requirements and objective

## PROJECTS

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### tokeo

- Designing a custom compiler/interpreter in Rust, incorporating lexical analysis, parsing, abstract syntax trees (ASTs), and semantic analysis. Planning on a custom virtual machine to execute compiled bytecodes

### clipshare

- Designed a typesafe API with tRPC and Prisma to communicate between database and S3 to host clips
- Developed using AWS S3, CloudFront, PostgreSQL, Next.js

### urlshortener

- Designed a REST API with user authentication and MongoDB Atlas to shorten URLs
- Dockerized application for faster startup during development using MongoDB and Node.js

## SKILLS

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**Languages:** Python, HTML/CSS, JavaScript, TypeScript

**Technologies/Frameworks:** React.js, Django, Express.js, MongoDB, PostgreSQL, Amazon Web Services (AWS), Docker, Kubernetes, Google Cloud Platform (GCP)