

# Noredeen Al-Zu'bi

nalzubi@uwaterloo.ca | 226.972.1112

## EXPERIENCE

### MODERN TREASURY | Software Engineering Intern

Jun 2022 – Sep 2022 | San Fransisco, CA

- Eliminated the risk of losing thousands from unrecouped verification micro-deposits by implementing simultaneous debit and credit transactions, complying with NACHA.
- Added dynamically-generated historical balance reports to the core **Rails** platform that change structure based on balance types, allowing effortless addition of new types.

### RADIX LABS | Algorithms & Schedulers Intern

Jan 2022 – May 2022 | Boston, MA

- Simplified writing mock schedule scenarios in **Scala** by building benchmarking infrastructure for scheduler heuristics which can combine arbitrarily-complex scenarios and generate them pseudo-randomly.
- Made the new core scheduler shippable by designing non-lossy conversions between old and new scheduler abstractions (despite very different logic), allowing the usage of current frontends and schemas.

### MAVENNET | Software Engineering Intern

May 2021 – Aug 2021 | Toronto, ON

- Integrated Amazon **QLDB** to provide an immutable and verifiable record of all platform activity, complying with governmental software standards.
- Migrated the core backend from **MySQL** to **Aurora** serverless which reduced monthly database costs by 40%.
- Set up the staging and production environments for Neoflow and MetalTrail by adding **CLI** wrappers to the **aws-cdk** utility, automating the majority of DevOps work.

### MAQSAM | Software Engineering Intern

Jun 2020 – Aug 2020 | Remote

- Optimized the A/B testing workflow via a static-site-generator library which replaced writing HTML when designing A/B variants and reduced hypothesis-to-test time by 80%.

## PROJECTS

### LETSMUK | 2<sup>nd</sup> Place DeltaHacks 7 |

- Built a **Rails** truth and synchronization service which a Flutter video chat app consumed to fetch up-to-date metadata. This service was also a proxy server for the Agora API.

### MINISQLITE |

- Using only the standard library, wrote a light SQL database in **C** which contains an SQL parser, execution engine, and in-memory storage infrastructure.

## SKILLS

### PROGRAMMING

Scala • C/C++ • Python •  
Ruby • TypeScript • Scheme •  
Java • Bash • Assembly •  
Ruby on Rails • NodeJS • Flask

### TECHNOLOGY

Git • AWS (EC2, ECS, CDK, RDS) •  
GNU/Linux • Bazel • Docker •  
PostgreSQL

## EDUCATION

### UNIVERSITY OF WATERLOO

B.S in Computer Science

2B | Expected Apr 2025

Cum. GPA: 3.61 / 4.0

## COURSEWORK

Design of Functional  
Programs (Advanced)

Algorithm Design & Data Abstraction  
(Advanced)

Foundations of Sequential  
Programs (Enriched)

Object-Oriented Software  
Development (Enriched)

Logic & Computation

## AWARDS

Crown Prince University Scholarship  
(Full-ride)

Computer Science International  
Upper-Year Scholarship

The Rensselaer Medal

## LINKS

GitHub:// [noredeen-alzubi](https://github.com/noredeen-alzubi)

LinkedIn:// [noredeen](#)

Website:// [noredeen-alzubi.github.io](https://noredeen-alzubi.github.io)