[](mailto:zm2zaman@uwaterloo.ca)

**TECHNICAL SKILLS**

ZAHIN M. ZAMAN

[](https://github.com/christylo/kardv3)[](https://youtu.be/3eHyQgif-yI)[](https://devpost.com/software/k-kard)[](https://github.com/alvii147/cram.ai)[](https://devpost.com/software/cram-ai)[](https://cram-ai.herokuapp.com/)[](https://youtu.be/P16aGODx5OU)[](https://github.com/alvii147/EduSource)[](https://devpost.com/software/edusource)[](https://youtu.be/-2_g7Y_6jL8)[](https://youtu.be/0xuxMHK1F9Y)[](https://github.com/alvii147/Altruist)[](https://devpost.com/software/altruist-2fvaod)[](https://devpost.com/alvii147)[](https://github.com/alvii147)[](https://www.linkedin.com/in/zahin-zaman/)[](https://zahin-zaman.vercel.app/)

**k kard**

Hackwestern – **Perfect Pitch Award**

Hackwestern – **FuturFund: Women in Financial Literacy Award**

* A mobile app that provides a fun, yet educational way for children and parents to manage their finances
* Developed & deployed fin-tech mobile application with stack and tab navigation using **React Native** and **Expo**
* Assembled a document-based **Firebase** backend to store user credentials

**Full-Stack Developer**

*Prodigy Education* Jan 2022 – April 2022

* Maintained **OAuth 2.0** & **OpenID Connect** identity service built on **Ruby on Rails**
* Leveraged multi-staged **Docker** builds to optimize production server container hosted on **Amazon ECS**, reducing image size by **58.4%**
* Designed & documented **Apache Kafka** calls to stream backend server events for data tracking and verified data payloads with unit tests utilizing **RSpec** & **Minitest** on Rails

**cram.ai**

WinterHacklympics – **Best Use of Google Cloud**

* Web platform that uses natural language processing to analyze lecture videos and generate learning flashcards
* Incorporated **NLTK** and **Google Cloud Language** to summarize lecture videos
* Generated flashcards with questions and answers in a user-friendly frontend served by a **Flask** backend hosted on **Heroku**

**Software Developer**

*1Password* Sept 2022 – Dec 2022

* Expanded backend functionalities using **Go** and **Stripe API**, including payments module, subscriptions, trial and paid tiers, and promotions
* Improved frontend credit card forms and payment flows using **React** and **TypeScript**
* **Dockerized** Apply Pay and subscriptions microservice with **MySQL** database and **RabbitMQ** message broker

**Full-Stack Developer**

*Nokia* May 2021 – Aug 2021

* Developed & managed authentication security, community articles page, and voucher redemption system for [Nokia Network Developer Portal](https://network.developer.nokia.com) on **Django** server with an **Azure** MySQL database
* Secured backend using **Django REST framework** API permissions, cross site scripting protection, and honeypot setups
* Composed unit tests for Django forms, models, and API endpoints, and configured **Docker** image for **Gitlab CI** automation testing

**Software Developer**

*Wind River Systems* Sept 2020 – Dec 2020

* Devised thread-safe functions in **C** and inline **Assembly** to fix multi-threading and memory-based defects for VxWorks RTOS
* Developed interactive application in **PyQt5** that assists in writing git commit messages and verifies status of Jira issues and code reviews

**Hardware Verification Engineer**

*Qualcomm* Jan 2020 – May 2020

* Attained **20%** increase in functional coverages by engineering **SystemVerilog** assertions to verify processor design
* Automated formal verification using **Perl** scripting to extract design hierarchy and formulate assertions

**EXPERIENCE**

**EDUCATION**

**University of Waterloo**

*B.A.Sc. in Electrical Engineering* Sept 2018 – May 2023

* **Term Dean’s Honour List,** for outstanding academic performance
* **Artificial Intelligence Degree Specialization**

**Altruist**

* Mobile and web platform to promote altruism and the assistance of senior citizens during a difficult time
* Assembled **Django** server with REST API using **Django REST Framework** including user login and registration
* Designed and constructed elegant, cross-platform mobile application using **React Native** and **Expo**

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devpost.com/alvii147

**PROJECTS**

**EduSource**

HackTheU – **Best Use of Google Cloud**

Hackrithmitic – **Best Use of Google Cloud**

* Web application for enriched remote education, crowdsourcing course materials and scientific equation recognition
* Employed **Google Cloud Vision** to implement scientific equation recognition from handwriting
* Built **Flask** app with **HTML, CSS,** and **Bootstrap,** and managed database **ORMs** in **Flask SQLAlchemy** and **SQLite3**

**Languages:** Python, Go, JavaScript/TypeScript, C++, HTML, CSS, Bash

**Frameworks:** Django, React.js, MySQL, PostgreSQL, Flask, Ruby on Rails, FastAPI, NumPy, pandas, TensorFlow, Matplotlib

**Tools/Services:** Docker, Kubernetes, AWS, Google Cloud

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