

# Eeshaan Sarda.

## ABOUT ME

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## EDUCATION

### University of St Andrews

BS Computer Science . 2019 - 2023  
Graduated with distinction

## SUBJECTS

Systems Programming, Artificial Intelligence and Machine Learning, Operating Systems, Programming Language Design and Implementation, Computer Security, Constraint Programming, Video Games, Computer Architecture

## SKILLS

Programming Languages (Java, C, C++, C#, Python, Haskell, Rust, Javascript), Web Development (HTML, JavaScript, CSS, ReactJS, Node.js, Flask, Django), Game Development (Godot engine, OpenGL, Processing), Databases (SQL, MongoDB), Logic and Reasoning, Git Version Control, Linux

## EXPERIENCE

### Product Manager, Mero Gadi . Aug 2023 – Current

*Leading startup in the field of vehicle tracking technology, specializing in GPS device integration and mobile application for secure location monitoring.*

- Overseeing the development and enhancement of cutting-edge vehicle tracking solutions, ensuring optimal functionality and user satisfaction.
- Collaborating with cross-functional teams to define product roadmaps, prioritize features, and drive the successful delivery of key milestones.

### Security Analysis Intern, Rustiq Technology . May 2022 – Aug 2022

*Engineering lab leveraging the power of the advanced language Rust in key areas including distributed systems, cryptography and artificial intelligence.*

- Spearheaded comprehensive Solana blockchain **security analysis**, identifying and resolving potential vulnerabilities, enhancing overall system resilience.
- Delivered detailed **reports on security findings**, contributing to the continuous improvement of the company's blockchain technology.

### Research Assistant, University of St Andrews . Oct 2021 – Feb 2022

*A prestigious university in the UK brings together researchers globally for research spanning from ancient history to modern scientific breakthroughs.*

- Led **generalisation refactoring** for the Idris programming language, optimizing code efficiency and enhancing overall system performance.
- **Presented findings** and improvements to the project supervisor, demonstrating a commitment to innovative solutions and academic excellence.

### Full Stack Intern, Dekho Network . May 2021 – Aug 2021

*Leading digital agency with a dedicated team of researchers always in quest for latest solutions to make, doing business and business promotions*

- Collaborated closely with a multidisciplinary team to design and implement website features, ensuring seamless user experiences using **MERN stack**.
- Conducted regular **website maintenance** and updates, demonstrating adaptability and a proactive approach to problem-solving.

## PROJECTS - In Github

### Academic Journal . Web Development

- Web-based academic journal that publishes peer-reviewed code, and the accompanying online platform to review the software and documents.
- Used web development skills like React, MongoDB, Typescript and express for this software. We followed the MVC design pattern as closely as possible.

### MessageCrypto . Security and Cryptography

- Secure messaging system consisting of the client and server with a crypto infrastructure that ties everything together. Used TLS and keys for security.
- Used JavaScript for the code, asymmetric keys for encryption and TLS to create a layer of secure channel between client and server. Testing was manual.

### TennisDB . Database Management

- MariaDB database which stores data for a scenario with a tennis related db which contains a user-friendly GUI. This contains queries and constraints.
- Created a database, added tables, created Views and a Function, enforced basic constraints, created a procedure, finally connected to a GUI.

### BlackHole Patience AI Search . Artificial Intelligence

- Search problem for BlackHole Patience (solitaire). Use depth-first search for Black Hole including a solver for a variant of Black Hole called 'Worm Hole'
- The depth-first search algorithm uses an iterative approach with stack. There's further analysis in the report done using datasets after running the code.

### EFIR Game . Game Development

- The game EFIR is a survival/defence RPG where the goal is to survive. To survive, you need to kill enemies and collect fuel for the flame in the centre.
- If the flame runs out, you will die. And you win if you manage to expand the flame's territory to cover the whole area. The game is made in Processing.

## EXTRA CURRICULAR ACTIVITIES AND ACHIEVEMENTS

- **St Andrews Dean's List 2020-21**: Recognized for outstanding academic performance
- **Winner, St Andrews Hackathon 2020**
- **Winner, Pub Quiz (hosted by AMEX)**
- **Winner, Inter University Challenge (by Amex)**
- **Instructor & Lecturer - Code First Girls**: Provided valuable guidance and mentorship to aspiring individuals with an introduction to Computer Science.