

# Ayaan Izhar

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## SKILLS

**Languages:** Java, TypeScript, JavaScript, Python, R, C++

**Backend & APIs:** Spring Boot, Microservices, RESTful APIs, FastAPI, JAX-RS, JPA/Hibernate, Node.js, OSGi

**Frontend:** React.js, React Native, Next.js, Tailwind CSS, HTML/CSS

**Databases:** PostgreSQL, MySQL, MongoDB

**Cloud, Infrastructure & DevOps:** Docker, Kubernetes, AWS (EC2, EKS, S3), Jenkins, Maven, Gradle, SonarQube

**Authentication, Payments & Backend Services:** Supabase (BaaS), Stripe (Payments API), Clerk (Authentication)

**Testing & Quality Engineering:** JUnit, JMeter, Cucumber (BDD), Jest, React Testing Library, pytest

**Data Analysis & Visualization:** Matplotlib, Seaborn, Plotly, Streamlit

**Design & Prototyping:** UML diagrams, Figma, Proto.io

**Developer Tools & Platforms:** Git, Bitbucket, Postman, Bruno, Expo, Jira, Confluence, Shell Scripting

## EXPERIENCE

### Experian PLC

Software Engineering Intern

Sept. 2025 – Present

Cyberjaya, Malaysia

- Resolved **Hazelcast instability** during **Karpenter node replacement**, reducing **downtime from ~60s to ~1s** (~98% reduction) while restoring cache across **database-backed microservices**, and presented the solution to the **Global Head of SRE**, where it was accepted for implementation.
- Migrated **35+ legacy RMI endpoints** to **Spring Boot REST APIs** to support the **Java 17 to Java 21 upgrade**, achieving **100% unit test coverage** across migrated modules and improving **service maintainability**.
- Designed and implemented a **centralized REST request-processing framework** that standardizes **payload validation, parsing, IO exception propagation, stack-trace preservation, and business exception handling** via an **abstract base class with lambda-based hooks**, eliminating **1500+ lines of duplicated logic** and reducing **endpoint implementation effort by ~70%** during the migration from **RMI-based client-server communication** to **Spring Boot REST APIs**.
- Built **parameterized Jenkins CI/CD pipelines** supporting **release-candidate (RC) workflows** with selectable **unit, integration, and sanity test suites**, enforcing **SonarQube quality gates**, producing **versioned release tags**, publishing **JAR/Docker artifacts**, and enabling **optional deployment to EC2 staging** with post-deploy smoke checks.
- Improved **service resilience** by tuning **startup, readiness, and liveness probes**, reducing **traffic routed to unready pods by ~79%** during deployments and node transitions.
- Provisioned and validated deployments on **AWS EKS**, configuring **node selectors and persona mappings** to stabilize **service scheduling and runtime behavior**.

## PROJECTS

StyleSync | Code 🌐 | Demo 🖱️

Solo-Developed Application: 1.5 months

- Designed and developed a full-stack fashion e-commerce platform integrating **retail, rental, and P2P marketplaces**, with **AI-driven outfit recommendations** based on user attributes and contextual factors (e.g., size, skin tone, and weather).
- Developed a **Supabase-backed REST architecture** integrating **Stripe and Clerk APIs**, with **FastAPI microservices** for AI inference and backend workflows
- Optimized data-processing logic to achieve **sub-500ms response times** for core workflows.

- Architected the system for scalability, validating support for **up to 500K users** under simulated load without service degradation.
- Developed a **CNN-based skin tone classification model** in PyTorch for personalized outfit recommendations, integrating model inference into **FastAPI microservices** within the application backend.
- **Tech Stack:** React Native, Redux, FastAPI, REST APIs, PostgreSQL, Supabase, Stripe, Clerk, Weather API, Jest, Pytest, Docker

**CheckMate** | [Code](#)  | [Demo](#) 

Nation Wide ImagineHack Hackathon: 1st Runner Up

- Developed **CheckMate**, an **AI-powered misinformation detection platform** that transcribes multimedia content, verifies claims using the **OpenAI API** and **web scraping**, and computes **creator credibility scores** using data-driven algorithms.
- Designed and implemented the core idea executing **backend LLM integration**.
- Lead Presenter, creating the architecture diagrams while presenting the slides.
- **Tech Stack:** TypeScript, NextJS, Clerk, ConvexDB, JavaScript (Used for the chrome extension), Dart, OpenAI API.

**Mail Merge** | [Code](#) 

KFUPM inspired Project

- A platform which automates the grading email system by one click by creating a simple mail with placeholders, uploading the .csv file containing the list of students with their grades and sending the email to all in just one click.
- Designed and developed the application which uses manual authentication tokenism storage inside MySQL, using streamlit for front end and state management.
- **Tech Stack:** Streamlit, Python, MySQL, HTML/CSS, Heroku.

**Alzheimers Diagnosis Prediction** | [code](#) 

- Built **machine learning models** (Logistic Regression, Naive Bayes, Random Forest) to predict **Alzheimers diagnosis** using lifestyle and chronic medical features.
- **Tech Stack:** Python, Matplotlib, Seaborn, Numpy, Pandas.

## EDUCATION

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### Taylors University

Jan. 2023 – Jan 2026

*Bachelor of Software Engineering (Honors)*

Subang Jaya, Malaysia

- **CGPA:** 3.60
- **Final Year GPAs:** 3.71,3.86,3.84 and 4.00
- **Dean's List:** Sem 1, Final Year: Sem 5,6,7, and 8
- **Coursework:** Programming (Machine Learning), OOP, Advanced Programming, Database Systems, Software Design, Computer Architecture and Organisation, IOT, SPM, SQM, TOC, Statistical Modeling and Inference, Software Testing, HCI, Requirements Engineering, System Fundamentals, Web Development, Capstone 1 and 2 (AI, ML, React Native, Supabase, FastAPI, Redux, Clerk).

## CERTIFICATIONS

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<b>DataCamp Data Engineer</b>	Nov. 2025
<b>DataCamp Associate Data Analyst</b>	Nov. 2025
<b>Cisco IOS</b>	Dec. 2024
<b>Oracle Java Developer</b>	Sept. 2023