

# Ethan Racine

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Project Portfolio: <https://ethanracine.github.io/Portfolio>

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## Graduate Software Engineer / Full-Stack Development Enthusiast

I've recently completed a Bachelor of Engineering (Honours) specialising in software engineering and am eager to begin my career in a technology consulting graduate program or software firm where I can apply my passion for full-stack development and contribute to impactful projects.

### KEY SKILLS

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| ▪ Programming Languages (Python, SQL, Java, JavaScript/TypeScript, Swift, C, C++, C#, R, PHP) | ▪ Databases (MySQL, PostgreSQL, MongoDB, Cassandra, Neo4j)                     |
| ▪ Front-end (React.js, Angular, HTML, CSS)  | ▪ Cloud Platforms (AWS - Lambda, IAM, DynamoDB, S3. Azure – Synapse Analytics) |
| ▪ Back-end (Node.js, Express.js, Laravel)   | ▪ UI/UX Design (Figma)   |
| ▪ iOS App Development   | ▪ Development Practices (Scrum, CI/CD)   |
| ▪ Version Control (GitHub, GitLab)  | ▪ MS Office  |
| ▪ Business Intelligence (Tableau, Power BI)   | ▪ Teamwork   |
| ▪ RESTful API   | ▪ Creative Thinking  |
| ▪ Machine Learning  | ▪ Analytical Thinking  |
|   | ▪ Interpersonal Communication Skills   |
|   | ▪ Docker   |

### EDUCATION

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#### Haileybury College

Graduated in 2019

- ATAR of 92.35
- Mathematical Methods, Further Mathematics, Software Development, Physics, French and English

#### Monash University

2020-2024

Bachelor of Engineering (Honours)

Specialisation – Software Engineering

### WORK EXPERIENCE PLACEMENT

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#### CSIRO INFORMATION TECHNOLOGY

OCTOBER 2017

Spent a week at the Clayton Branch as a part of my Year 10 work experience.

### WORK HISTORY

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#### TENNIS COACHING

JANUARY 2019 - CURRENT

Have been restringing tennis racquets and coaching tennis since I graduated from high school. Coaching at Melbourne Grammar School and BTA Turbo Tennis for both children and adults.

#### ANGLE AUTO FINANCE – INTERN

JANUARY 2023 – FEBRUARY 2023

6-week internship with an auto finance company that provides personal and business car loans.

### Achievements and Contributions

- Created a Star Schema of the cloud data warehouse
- Wrote queries in SQL to remove duplicate records from the data warehouse

- Undertook extensive research to develop an understanding of various technologies and technology areas within the business, particularly with Data and Analytics

#### **Skills**

- Technical Skills: Azure Synapse Analytics, SQL, Power BI
- Soft Skills: Communication, Teamwork, Time Management

#### **Forage Data Analytics Consulting Virtual Internship (KPMG)**

**May 2023 – June 2023**

Completed Practical Tasks in:

- Data Quality Assessment
- Data Insights
- Data Insights and Presentation

#### **Skills**

- Technical Skills: MySQL Workbench, Excel, PowerPoint, Tableau, Power BI

#### **ANGLE AUTO FINANCE – DATA INTERN**

**JANUARY 2024 – MAY 2024**

Worked one day-a-week for a 6-week period during my holiday, and am continuing this during the university semester as part of the data engineering team at an auto finance company that I had an internship with in Summer 2023 as well.

#### **Achievements and Contributions**

- Optimised stored procedures
- Identified why duplicates were being produced in the data pipeline
- Performed data mapping between Looome software and the data warehouse to ensure data consistency and integrity

#### **Skills**

- Technical Skills: Azure Synapse Analytics, SQL, Data Mapping, Data Analysis, Python
- Soft Skills: Problem-Solving, Attention to Detail, Communication, Team Collaboration

#### **PROJECTS**

##### **iOS Chants App**

**APRIL 2023 – CURRENT**

- Identified a gap in the market for apps allowing soccer/football fans to create and share chants for their favourite teams, so during my university holidays I've been developing an iOS app which addresses this.
- Implemented functionalities including user authentication (email & Google), team selection, chant creation (text, microphone recording, video upload), chant viewing, and a voting system (like/dislike).
- It's built in Xcode and written in SWIFT. I've used Firebase for user authentication, real-time database management, and storage of videos/audio files.

## Website for a Restaurant in Malaysia

FEBRUARY 2024 – NOVEMBER 2024

- Identified a gap in the digital presence of restaurants in Malaysia compared to Melbourne, leading to missed opportunities for online orders and table reservations.
- Collaborated with university colleagues to develop a user-friendly website and to bridge this gap.
- The website empowers customers to browse menus with enticing photos, conveniently place online pre-orders or make reservations, as well as get rewards from a loyalty program.
- It's been written in JavaScript, using React.js for the front-end, Laravel (PHP) for the back-end, Supabase for authentication, and MySQL for database management.
- I took on the role of Scrum Master, which involved organising and moderating scrum events (such as our stand-up meetings, sprint planning sessions, reviews, and retrospectives), also ensuring that the team was following the scrum process and agile principles. I also helped our Product Owner to manage the product backlog and prioritise requirements.
- In terms of development, for this project I created storyboards on Figma for our client, setup a Laravel project with React, added a hook to fetch data from the API, created the initial front-end and back-end of the menu page similar to UberEats, and made the page responsive for different screen sizes.

## AI-Driven Study Application

FEBRUARY 2024 – NOVEMBER 2024

- Collaborated with a startup software consulting company (FirstIQ Solutions) and university colleagues to develop an application that utilises AI and Machine Learning (ML) to streamline the study process for students.
- The application aimed to convert PDFs containing exam-style material into customisable flashcards
- The tech stack we used is React.js for the front-end, Supabase for the back-end, which uses PostgreSQL for a relational database, and OpenAI's ChatGPT 3.5 model for the LLM.
- I took on the role of Scrum Master, which involved organising and moderating scrum events (such as our stand-up meetings, sprint planning sessions, reviews, and retrospectives), also ensuring that the team was following the scrum process and agile principles.
- In terms of development, for this project I worked primarily on the front-end, developing components such as the sidebar and topbar which are used across most pages in the application, as well as the Create Flashcards Page, which involves creating a multiple page popup that starts with filling in a form and uploading a pdf document which is used for the next page where the flashcards get generated. I've also developed most of the front-end for the settings and have setup the front-end for upgrading to a premium account.

## VOLUNTEER PLACEMENTS

### St. Matthew's Soup Kitchen

JULY 2015

Volunteered at a local soup kitchen providing meals to the homeless and people with disabilities.