

Rian Barrett

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Summary

I am a Computer Science student with a deep passion for the intersection of software development and data science. My expertise in both fields has been instrumental in developing products and performing analyses. Currently, as a full-stack engineer, I leverage my experience with algorithms, data science, Python, React, Firebase, and the OpenAI API to develop generative AI applications that offer engaging and user-friendly web experiences. My journey has been enriched by internships where I have implemented significant functional improvements under structured supervision and contributed substantially to the development of a startup. I am eager to use the insights gained from these roles to advance my career and seek consistent growth through guidance from experienced mentors.

Education

Bachelor of Computer Science from Monash University

2022 - Present

Specialization: Data Science, Minor: Software Development

Bachelor of Science from Monash University

2020 - 2022, Transferred to Bachelor of Computer Science

High School Diploma from St. Mary's International School

Graduated 2019 with IB Diploma

Career history

Software Engineer Intern at MEJORA Corporation

April 2024 – Present

I am currently working as a software engineer at MEJORA Corporation under the direct supervision of the CEO, in a team of four. We work in a flat organizational structure, where I am entrusted with proposing product directions and implementing features. The technology stack I use includes React, Firebase, Firestore, and the OpenAI API. I am responsible for developing applications using generative AI.

Key tasks undertaken during the internship include:

- Proposing development product directions based on implementation proposals and analysis results.
- Using Selenium and Hugging Face to conduct market research.
- Analyzing scraped data with pandas.
- Creating demonstration mockups using Figma.
- Researching necessary tech stacks and technologies for creating the product.
- Leading the implementation of the AI survey creation app product.
- Completing the implementation of the AI survey creation app and demonstrating the final product to the CEO.

Company Website Link (in Japanese) :

<https://mejora.co.jp/service/ai>

Software Engineer Intern at Diamondhead Corporation

Dec 2023 – Feb 2024

I worked as a software developer on the feature improvement team at Diamondhead Corporation. The technology stack included HTML, CSS, JS, Django, and PostgreSQL, and the team consisted of about ten people. The SaaS I worked on was a centralized e-commerce management software that manages clients' products on multiple ecommerce platforms (e.g., Amazon, Zozotown).

Key tasks during the internship include:

- Improved the word count feature to display accurate word counts for two different input modes.
- Modified the user account change feature to update immediately instead of being based on old cache information from the original version.
- Changed the product image positioning mode button, altered the default function, and implemented adjustable settings according to client preferences.

Other tasks undertaken include:

- Wrote test specifications for the software developed so colleagues could test it.
- Reviewed test specifications written by colleagues and verified the code for release.
- After project completion, I presented my development progress to the team and summarized the new features implemented.

Internship participation article (in Japanese) :

<https://note.com/diamondhead/n/n4a1f53c731f4>

Company Website Link (in Japanese) :

<https://g.diamondhead.info/home>

Juku Tutor at Meiko Gijuku

Mar 2022 – May 2022

I was responsible for teaching English to students at the tutoring center and managed their study plans for test preparation. I also focused on motivating students during class to maintain their concentration.

Crew at McDonald's

July 2020 – January 2022

My main responsibilities involved serving meals at McDonald's in both the delivery and kitchen teams. I also took orders at the front counter and operated the register.

Languages

Python

Proficiency & Duration of Use: Intermediate - 4 years

Usage: Used for web backend development, object-oriented game development, data science, and courses on data structures and algorithms.

Frameworks/Libraries Used: Django, Pandas

JavaScript, HTML, CSS

Proficiency & Duration of Use: Intermediate - 2 years

Usage: Used for personal web development and during web development internships.

React.js

Proficiency & Duration of Use: Beginner - 1 year

Usage: Used for personal web development and in startup internship.

Frameworks/Libraries Used: Redux

Java

Proficiency & Duration of Use: Intermediate - 2 years

Usage: Worked on the development of an object-oriented roguelike game in a team.

Swift

Proficiency & Duration of Use: Intermediate - 3 months

Usage: Used for developing apps in an iOS app development course and for personal iOS projects.

SQL

Proficiency & Duration of Use: Intermediate - 2 years

Usage: Used for setting up databases in a database course and development, and analysis in a data warehousing course and for querying in web development internship.

TypeScript, Haskell

Proficiency & Duration of Use: Beginner - 1.5 months

Usage: Used briefly in a course focusing on type safety and functional programming.

R

Proficiency & Duration of Use: Intermediate - 1 year

Usage: Used in data science and data analysis courses.

PHP

Proficiency & Duration of Use: Beginner - 1 month

Usage: Used once in a course for backend web development.

Tools

Figma

Proficiency & Duration of Use: Intermediate - 1 year

Usage: Used to create user-oriented app designs.

Tableau

Proficiency & Duration of Use: Beginner - 3 months

Usage: Used in a data visualization course to visualize airline passenger satisfaction data.

Docker

Proficiency & Duration of Use: Beginner - 1 month

Usage: Used to set up development environments during an internship.

BI

Proficiency & Duration of Use: Beginner - 3 months

Usage: Used in a course to build a star schema for extracting BI insights from databases.

Firebase

Proficiency & Duration of Use: Intermediate - 6 months

Usage: Used for database creation in iOS applications and backend development during a startup internship.

Skills

Native level Japanese & English, Software Development, Teamwork, Leadership