

RAJ MOHAMMAD

[Portfolio](#) | [GitHub](#) | rajmoham10@gmail.com

A motivated and ambitious individual with excellent technical proficiency in ReactJS, TypeScript, Python and Java; with a keen interest for generative-AI and Fin-Tech. I am a quick and passionate learner, always trying to strive for improvement and have the skills necessary to perform in teams as well as individually.

EXPERIENCE

Solutions Engineer Intern – Coveo

- Built custom product demos for prolific clients such as Porsche using React, TypeScript
- Utilised Coveo ML to power relevance searching capabilities, query suggestions, facet management, pagination, recommendations etc.
- Redesigned and refactored demo environment, cutting down development to production transition to <20% of original time.

Frontend Simplified Internship – NFT Marketplace [\[Link\]](#) [\[GitHub\]](#)

- Transformed a static page into an interactive UI, processing API requests to dynamically fetch data, skeleton loading states, pagination, dynamic routing, as well as utilising Git version control to simulate a virtual, collaborative environment.

Frontend Development Support

- Supported a community of 1,000+ students learning HTML, CSS, Flexbox, JavaScript, and React best practices.
- Simplifying difficult programming concepts (responsiveness, CSS Layout, Promises, Async function, API requests)

PROGRAMMING PROJECTS

FakeStore (E-Commerce Site) – React.JS, HTML, CSS, JavaScript [\[Link\]](#) [\[GitHub\]](#)

- Developed an extensive E-Commerce site using React with responsive and interactive design for landing page, browse page, product page and basket page
- Used local JSON file to mimic API data fetching

Song Downloader (Terminal Application) – Python (+ pytube) [\[GitHub\]](#)

- Built a terminal application to extract user playlist data and downloads songs locally
- Experimented with Spotify API with OAuth 2 authentication and YouTube API

King's Certificate: Improving the Online Shopping User Experience (UX) – HTML, Bootstrap, C# [\[GitHub\]](#)

- Developed an impression online shopping service using ASP.NET in a collaborative environment
- Implemented frontend development, pagination, and dynamic navigation
- Incorporated concepts on user psychology, customer centricity, and responsive design from a prior research project

National University of Singapore High-School: Hackathon 2020 (U-Receipts) – HTML, Bootstrap/CSS, C#, SQL [\[GitHub\]](#)

- Lead and developed a receipts-storing web application using ASP.NET and database storing in SQL
- Implemented frontend design for landing page, dashboard, and information display pages and assisted in backend development
- Worked under 24-hour time restriction and in a collaborative setting

EPQ: Designing and Making the 'Perfect' Game – C#, Unity, Amazon Web Services (AWS)

- Constructed and documented the development of a prototype first-person shooter using Unity and C#
- Established integrated multiplayer functionality using a client-server architecture hosted on AWS in a Linux server
- Implemented popular first-person mechanics including wall-running, mantling and parkour stunting

EDUCATION

King's College London Mathematics School | A-Levels

(September 2020 – August 2022)

- Mathematics – A*, Further Mathematics – A*, Physics – A*, EPQ – A, AS Computer Science – A
- NUSH Hackathon – 2nd, British Informatics Olympiad, Senior Maths Challenge – GOLD, Senior Kangaroo Maths Challenge, King's Certificate – Distinction, BPho Senior Physics Challenge, Bebras Computing Challenge

Beths Grammar School | GCSE

(September 2015 – August 2020)

- 12 GCSEs 9-8 (A*); Maths – 9, Further Maths – 9, Physics – 9, Computer Science – 8, English Language – 8
- DofE, Honours Tie, Mathematician Award, General Excellence Award, English Speaking Endorsement (Distinction), Junior Maths Challenge, Junior Kangaroo Maths Challenge

SKILLS

Frontend: React (+ hooks), Next.js, NPM, Yarn, JavaScript ES6+, Typescript, CSS3 (+SCSS, BEM), Tailwind CSS

Backend: NodeJS, Java, Python, MySQL

Technical: Git, Firebase v9, React Dev Tools, GitHub, GraphQL

Soft Skills: Communication, Problem-Solving, Analytical skills, Attention to Detail, Adaptability

CERTIFICATIONS

- ♦ HyperionDev - Software Engineering Bootcamp (Endorsed by Imperial College London)
- ♦ Coveo Level Up – Platform Developer Certification
- ♦ Coveo Level Up – Commerce Core Developer Certification

References available upon request