

AARON ROYAN

SOFTWARE ENGINEER · AI ENGINEER
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SUMMARY

AI Engineer and Full Stack Developer combining university research and industry experience in designing and deploying AI-powered solutions. Proficient in Python, Java, C++, JavaScript, TypeScript and Node.js, with expertise in building scalable APIs and integrating machine learning models. Experienced across Microsoft Azure, AWS, GCP, databases and cloud infrastructure, using agile methodologies to deliver solutions efficiently.

TECHNICAL SKILLS

Languages: Python, Java, C++, JavaScript, TypeScript, Node.js
Frontend: React
Backend: ASP.NET Web API, REST APIs
Cloud & Infrastructure: Microsoft Azure, AWS, GCP, K3 clusters
Data: MongoDB, Database Administration, NumPy
AI/ML: PyTorch, BERT, Model Training, AI Model Engineering

PROFESSIONAL EXPERIENCE

- A Shade Greener — React / TypeScript Developer** Feb 2026 – Present
- Built a full-scale warehouse management system from scratch to support core operational workflows.
 - Maintained and developed the company's software, delivering new functionality, fixes and ongoing improvements.
 - Implemented route-matrix optimisation for engineer routes to improve route planning and operational efficiency.
 - Worked with K3 clusters within the software and deployment environment.
- The Kings Trust — AI Model Engineer and Researcher (Cognitive State Detection via Wearable Bio-sensing)** Mar 2025 – Jan 2026
- Designed a wearable system using EEG and fNIRS to capture brainwave data for mental-state analysis, enhancing data accuracy by 42%.
 - Built a pipeline for artifact removal, feature extraction and fatigue classification using ML models, improving classification accuracy by 35%.
 - Developed and tested the system on real-world data using Python, MNE, Scikit-learn and OpenBCI, reducing processing time by 60%.
- Loyaltytics.AI — Full Stack Developer** Oct 2021 – Jun 2022
- Spearheaded the design and deployment of a new launch program, boosting client profits by 7% by integrating machine-learning models and scalable APIs.
 - Built scalable full-stack websites facilitating real-time data analysis and decision-making, leveraging TypeScript for backend development and cloud infrastructure (AWS/GCP/Azure).
 - Collaborated with cross-functional teams using agile methodologies to deliver solutions in tight timelines, ensuring efficient project completion with Python and Node.js.

ADDITIONAL EXPERIENCE

- Tonkotsu — Junior Sous Chef** May 2025 – Present
- Rapidly problem-solved to troubleshoot unexpected issues in-between shifts.
 - Developed and applied time-management skills in a fast-paced operational environment.
- Miller & Carter — Chef** Nov 2023 – May 2025
- Showed strong leadership and teamwork within a busy kitchen environment.
 - Improved kitchen workflows, boosting profit by 8% and cutting food waste by 20% within a 2-month span.
 - Led team projects to improve operations, encouraging a culture of continuous improvement and responsibility.

EDUCATION

- University of Sussex, Brighton — MSc Artificial Intelligence and Adaptive Systems** Sep 2023 – Sep 2024
Specialist focus: LLM Prompt Recovery
- St. Joseph's University, Bangalore — Bachelor of Computer Applications** Jun 2019 – Jul 2022
Elected to be in student council

HONOURS & AWARDS

- Best Team Launch — Loyaltytics AI
- Player's Player & Employee of the Quarter — Miller & Carter