

Rohan Nandan, Software Engineer

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[LinkedIn](#) | [GitHub](#) | [LeetCode](#) | [Technical Blog](#)

PROFILE

Third-year Software Engineering student specializing in modern web development and applied AI, with hands-on experience delivering full-stack products using Next.js/React, FastAPI and Python. Built AOG Zero, an AI-powered real-time aircraft APU health monitoring platform and led CS111 peer mentoring at USP, showcasing strong problem-solving, communication, and collaboration.

SKILLS

- Python (Pandas/Scikit-Learn)
- JavaScript (Next.js)
- Git/GitHub
- SQL (PostgreSQL/MySQL)
- Java (Spring Boot)

WORK EXPERIENCE

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|---|----------------------------------|----------------------|
| Data Scientist/Engineer | Pacific Technologies PTE Limited | January 2026 - |
| <ul style="list-style-type: none">• Performed EDA and built robust data preprocessing and feature engineering pipelines, including advanced feature extraction techniques.• Developed and tuned LightGBM (LGBM) models to optimize predictive performance. | | |
| Peer Mentor | University of the South Pacific | July – November 2024 |
| <ul style="list-style-type: none">• Led CS111: Introduction to Computer Science using specialized training accredited by Griffith University.• Facilitated collaborative learning environments to enhance students' understanding of course content.• Developed tailored study strategies, fostering individual student growth and academic success. | | |
| Archivist and Scanning Clerk | Erasito Consultants Limited | May – December 2023 |
| <ul style="list-style-type: none">• Organized and maintained physical and digital records, ensuring accurate archiving of office documents.• Scanned and digitized large volumes of paperwork, enhancing data accessibility and reducing physical storage needs.• Collaborated with team members to streamline record management processes, improving overall efficiency and retrieval times. | | |

EDUCATION

- | | |
|--|-------------|
| Bachelor of Software Engineering | 2023 – 2027 |
| <ul style="list-style-type: none">• University of the South Pacific• Relevant coursework: Data Structures & Algorithms, Database Systems, Operating Systems, Web Development, Software Engineering. | |
| High school Diploma | 2018 – 2022 |
| <ul style="list-style-type: none">• Jai Narayan College• Achieved 370/400 in year 12 external examination | |

PROJECTS

- | | |
|---|---------------|
| AOG Zero | December 2025 |
| <ul style="list-style-type: none">• Built a real-time AOG prevention system for aircraft APUs using Next.js and FastAPI, featuring fleet-wide health monitoring, predictive alerts, and secure Google OAuth | |

authentication. Enabled proactive maintenance through live sensor data, dashboards, and AI-driven insights.

[Astro.js Blog Website](#)

September 2024

- Designed and developed a content-rich review platform focused on films, technology, and sports. TypeScript and Tailwind CSS was used to create a responsive and visually appealing website.

[Student Administrative System](#)

November 2024

- Developed a full-stack student administration system with features for managing staff, students, classes, enrollments, assessments, and PDF report generation.
- Built with React (Next.js, TypeScript, Tailwind CSS) on the frontend and Spring Boot (Java) on the backend with PostgreSQL.

AWARDS & ACCOLADES

- Head of School's Award for **Most Outstanding First Year Student** in the School of Information Technology, Engineering, Mathematics and Physics (STEMP), USP
- University Award for **Most Outstanding Software Engineering Student** in First Year, USP
- Won **3rd** Place at Honeywell × TCS AI Hackathon for building an AI-based AOG prevention system
- Best Frontend Developer at Honeywell x TCS AI Hackathon

EXTRA-CURRICULAR ACTIVITIES

AI Hackathon by Honeywell x TCS

December 2025

- Participated in a team-based hackathon developing AOG Zero, an AI-powered system for real-time aircraft APU health monitoring and Aircraft-on-Ground (AOG) prevention.