






RAMCHANDRA

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Backend Software Engineer | AWS | AI

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Summary

Backend Software Engineer with 3+ years of experience building scalable applications using Node.js and AWS. Currently pursuing a Master's in Cybersecurity in Sydney, NSW, with a strong interest in secure cloud systems and AI-driven technologies.

Employment History

AI Software Engineer Intern (January 2026 – March 2026)

R2P Australia

- Built PDF contract-analysis pipelines using C#, REST APIs, vector search, and Ollama LLM models to extract 10+ key data fields.
- Reduced NLP response latency by 20% using prompt optimization and vector search indexing.
- Researched on PDF Decomposition, Extraction and conversion using fine tuned models.

Software Developer (January 2023 – March 2025)

United Codes

- Optimized Node.js codebase with security best practices, reducing vulnerabilities in legacy systems.
- Integrated Collabora Online & LibreOffice Core for enterprise document handling.
- Implemented secure CI/CD pipelines along with automated testing.
- Managed AOP SDKs (JavaScript, Python, Java, TypeScript).
- Led customer technical support and mentored interns.

Junior Software Developer (November 2021 - December 2022)

United Codes

- Redesign and improvement of company's website.
- Implemented new features and fixed bugs using Node Js.
- Improved AOP's SQL/MySQL integration within Oracle APEX.
- Debugged and optimized existing features.

Intern Software Developer (August 2021 - October 2021)

United Codes

- Developed system a health checker with slack and email alerts for improved monitoring and incident response.
- Developed web apps using Oracle APEX.

Skills

Languages & Frameworks:

JavaScript, Node.js, Python, C, C++, C #

AI & ML: RAG, NLP, LLM, Ollama

Cloud & DevOps: AWS, Docker, GitHub Actions

Platforms & Tools: Git/GitHub, OOXML, Oracle APEX

Databases: SQL, PL/SQL, MongoDB

Education

Master's in information technology (Cybersecurity)

March 2025 – November 2026

- Charles Darwin University, Sydney Campus

- Graduating November 2026

B.E. in Information Science Engineering (2017 - 2021)

NMIT, Bangalore, India

Graduated with a CGPA of 8.67

Certifications

- [Oracle APEX Cloud Developer Certified Professional](#)
- [HTML, CSS, and JavaScript for Web Developers](#)
- [Python for Everybody](#)

Language

English (Fluent Communication)

Nepali (Native Speaker)

Hindi (Fluent Communication)

Projects

Autonomous Virtual Agent (AVA) – AI Assistant for Netspire Products

Tech: C#, REST APIs, Document Parsing

- Contributed as an intern in a 4-member team to develop AVA, an AI assistant used by R2P partners to support Netspire products.
- Implemented new features and integrated external APIs to improve assistant capabilities.
- Developed deterministic algorithms to detect document structures (headers, footers, tables, lists, paragraphs) using coordinate-based parsing.
- Refactored existing code to improve maintainability and reliability during early production launch.

APEX Office Print (AOP) – Large-Scale Document Generation Platform

Tech: Node.js, Oracle APEX, REST APIs, GitHub Actions

- Worked on AOP, a widely used internal document-generation platform serving **15k+ users across organizations**.
- Improved PPTX processing performance by **25%** through algorithm optimization guided by profiling.
- Implemented parallel processing for MS Office document conversions to reduce processing time.
- Fixed critical production bugs, and implemented new features, and updated SDKs.
- Integrated CI/CD pipelines using GitHub Actions and added automated tests to improve release quality.

APEX Office Edit – Collaborative Document Editing Service

Tech: Node.js, Oracle APEX, REST APIs

- Sole maintainer responsible for feature development, bug fixing, and stability improvements.
- Reduced server crashes to nearly zero and improved loading performance by **50%+**.
- Integrated Office Edit with AOP to generate templates and tags dynamically from provided data.
- Implemented test automation and added support for custom themes and additional configuration options.

Phishing Website Detection – Machine Learning Project

Tech: Python, Scikit-learn, Pandas, XGBoost

- Built a phishing detection system using a dataset of **10,000 URLs** with full pipeline: data cleaning, feature extraction, visualization, and model evaluation.
- Tested Decision Tree, Random Forest, SVM, and selected **XGBoost** achieving **87.2% accuracy**.
- Implemented automated URL feature extraction for phishing classification.

References available upon request