Radih Jr Paraguas

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Profile

Software Engineer with 8+ years of experience in full-stack web development, specialising in scalable back-end systems and responsive front-end applications. Proficient in Python, Django, TypeScript, React, and modern DevOps practices. Currently pursuing a Master of Information Technology at Central Queensland University, Brisbane, with a focus on Software Development and Cybersecurity.

Career History

Software Engineer

Construction Technology Institute (CTI) - *March 2025 - Present*

Tech Stack: Next.js, React, Python (FastAPI), PostgreSQL, Celery + Redis, LangChain, Anthropic API, Heroku, Vercel, Supabase, GitHub, GitHub Actions

- Develop and maintain full-stack web applications for an AI-driven incentives intelligence platform.
- Build REST and vector-based APIs using FastAPI and PostgreSQL, integrating LangChain with Anthropic API to enable LLM-powered search and content matching.
- Design responsive front-end components in Next.js and React with dynamic filtering, pagination, and server-side rendering.
- Implement background task processing using Celery and Redis for scalable data scraping, content deduplication, and asynchronous workflows.
- Collaborate with cross-functional developers and data engineers to optimise system reliability, data accuracy, and inference latency.

Key Achievements:

- Reduced duplicate content by over 40% through AI-based deduplication using vector embeddings.
- Improved background job throughput by 2× via optimised Celery concurrency and Redis queue management.

Software Engineer

Emapta Versatile Services Inc. - *June 2021 - June 2024*

Tech Stack: Django, Vue, React, MariaDB, PostgreSQL, Docker, GitHub Actions, REST APIs, AWS, Digital Ocean

- Led the development and maintenance of multiple client and internal projects, ensuring scalability, performance, and security.
- Provided technical guidance and mentorship to developers, promoting best coding practices and agile principles.

- Coordinated with stakeholders and project managers to align development priorities with business objectives.
- Designed and optimised databases for scalability and maintainability.
- Implemented automated testing and CI/CD pipelines to improve deployment reliability.
- Collaborated with cross-functional teams to resolve blockers and improve delivery efficiency.

Key Achievements
- Delivered multiple projects on schedule, improving efficiency and automation for clients.
- Optimised system performance through code refactoring and database improvements.
- Enhanced deployment speed and reliability by implementing CI/CD pipelines.
- Delivered projects including Dedomainia (Django–Vue automation), Boilerplate (multi-tenant API framework), and Actronika (React–Electron with CI/CD integration).

Front End Developer

Mynd Consulting - *April 2017 - June 2021*

Tech Stack: Vue.js, JavaScript, TypeScript, Swift, Firebase, REST APIs, AWS

- Developed and maintained websites and web apps, ensuring responsiveness and usability.
- Built new modules and features for CMS platforms to streamline content management.
- Collaborated with designers to implement clean interfaces and intuitive user experiences.
- Integrated analytics to monitor performance and crashes for continuous improvement.

Key Achievements:
- Built and deployed an iOS app to the App Store.

Key Projects:
- *Sharpen (Client Project):* Developed a health management web app with PWA support using Vue.
- *OFWWatch (Internal Project):* Created an iOS social app for Overseas Filipino Workers to connect and access government support, using Swift.

Education

Master of Information Technology (MIT) – Ongoing
Central Queensland University, Brisbane, Australia - 2025 - Present

Bachelor of Science in Computer Science
STI College General Santos, Philippines - Graduated April 2017

References

Available upon request