Pratul Singh Raghava

Software Engineer | Cloud & AI Systems

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PROFILE

Software Engineer and Founding Product Lead with First Class Honours from the University of Sydney. Specialises in architecting serverless AI systems (AWS, GCP, OpenAI) and shipping production-grade software from zero-to-one. Combines deep technical expertise in distributed event-driven architectures with a product-first mindset, having successfully navigated full-stack development, cloud operations, and app store launches. Passionate about building scalable, 'build-run-own' systems that solve complex user problems.

WORK EXPERIENCE

Founding Engineer & Product Lead   *Dec 2025 - Present*
Done Life

- Architected a serverless, event-driven backend to automate complex "Life Admin" workflows for consumers.
- Engineered a custom traffic router that dynamically directs payloads between low-latency text models and high-compute vision models, reducing processing overhead by ~40% and response times by ~70%.
- Solved temporal hallucination issues in LLMs by injecting dynamic context anchors and Chain-of-Thought protocols into system prompts, advancing system reliability and excelling in complex reasonings tasks.
- Implemented an intent-classification and pre-processing layer that sanitises inputs and filters non-actionable noise prior to ingestion, significantly optimising API token usage and downstream data quality.
- Led the end-to-end product lifecycle from Zero-to-One, managing full stack & navigating App Store compliance.

Software Engineer   *Jun 2024 - Dec 2024*
Accenture

- Designed and deployed a serverless API platform on AWS to manage large-scale OpenSearch permissions.
- Built event-driven workflows with EventBridge + Step Functions, mirroring stream-processing systems (Kafka).
- Automated infrastructure provisioning with CloudFormation (IaC), reducing manual setup by 80%.
- Delivered features in a fully agile scrum team, contributing to sprint planning, reviews, and retrospectives.

Casual Academic   *Feb 2024 - Present*
University of Sydney

- Tutored 335+ students in machine learning and Python workflows for practical engineering use cases.
- Mentored students in applying AI/ML to real-world engineering datasets; received 95% positive feedback.

President   *Aug 2023 - Aug 2025*
University of Sydney Robotics Club

- Directed a 25-member engineering team delivering 30+ events and scaling operations for 1,800+ members.
- Delivered cross-disciplinary workshops on programming, computer vision, and embedded systems.
- Secured 10+ industry partners and acted as key liaison between technical teams, and university stakeholders.
- Acted as key liaison between technical teams, partners, and university stakeholders.

EDUCATION

Bachelor of Engineering Honours (Software Engineering)   *Aug 2021 - July 2025*
University of Sydney

- Awarded **First Class Honours** with **79.2** Honours WAM & **76.8** WAM
- Received the Sydney International Student Award & Engineering Sydney Industry Placement Scholarship
- **Key Courses:** Cloud Computing (88, HD), Full Stack Development (86, HD), Scalable Data Management (77, DI)

TECHNICAL SKILLS

- **Core Engineering:** System Architecture, Event-Driven Design, API Integration, Prompt Engineering, CI/CD.
- **Cloud:** AWS (Lambda, EventBridge, S3, RDS, API Gateway), Google Cloud Platform (OAuth, App Verification).
- **Databases & Tools**: PostgreSQL, MySQL, SQLite, MongoDB, DynamoDB, GitHub, Azure DevOps, Agile Scrum
- **Languages & AI:** Java, Python, REST/Webhooks, JSON/Regex, Docker, OpenAI API (Vision, Whisper)