

# ARIADNE VENTURA

Melbourne | <https://ariadnevk.me>  
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Highly motivated Software Engineer with experience in full-stack development, microservices, Kubernetes, and Agile methodologies. Seeking to leverage my technical skills in a collaborative team environment to build efficient software solutions.

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## EXPERIENCE

### SOFTWARE ENGINEER

Leidos Australia | Melbourne

2023 – PRESENT

- Developed and maintained core features for three microservices-based projects, serving hundreds of users. Utilized **Kubernetes** for scalability.
  - Built **React/TypeScript** frontends and **Java, Kotlin, and Rust** backends, integrating **SQL databases** and **RabbitMQ** for messaging.
  - Conducted comprehensive frontend and backend testing, ensuring reliability and performance.
  - Integrated **CI/CD pipelines**, streamlining development workflows and improving deployment efficiency.
  - Converted a **1,000+ line Java codebase** to **Rust**, significantly improving performance.
  - Served as **acting Scrum Master/team lead** (Dec 2023 – Jan 2024), managing stand-ups, refinements, retrospectives, and client communications.
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## EDUCATION

### BACHELOR OF SOFTWARE ENGINEERING

RMIT, Melbourne

Graduated with Distinction | GPA 3.5

- Banking Web Application (C#, .NET 8.0) – Developed a full-featured banking app with **MVC architecture**, supporting transactions, scheduled payments, and admin account management. High Distinction
- Path Planning Algorithm (C++) – Designed a robot navigation algorithm focusing on **dynamic memory management**. Distinction
- Scrabble Board Game (C++) – Implemented game logic using ADTs, linked lists, and exception handling. High Distinction
- Healthy Groceries Web App (React, TypeScript, SQL) – Created a full-stack e-commerce platform with secure checkout, credit card validation, and admin analytics. High Distinction
- Connect 4 AI (C#) – Developed a Monte Carlo Tree Search AI to play Connect 4. High Distinction
- Reinforcement Learning AI (C#) – Implemented **Sarsa and Q-Learning** to train an AI agent for solving 2D puzzle maps. High Distinction
- Autonomous Vehicle Scrutineering Tool (C#) – Developed an Agile-based team developing a safety evaluation tool for Formula Student Autonomous Vehicles, collaborating with Nuvotion as a Scrum Master & Developer. High Distinction

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## SKILLS

- **Programming Languages:** C++, C#, .NET 8.0, Java, Rust, JavaScript, TypeScript
  - **DevOps & Cloud:** Kubernetes, Docker, CI/CD pipelines, Git/GitLab
  - **Databases & Messaging:** SQL, RabbitMQ
  - **Frameworks & Tools:** React, Spring Boot, NUnit, JUnit
  - **Operating Systems:** Linux/Unix
  - **Game Development:** Unity
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