

Broderick Westrope

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EXPERIENCE

Software Engineer <i>DroneShield</i>	Nov. 2024 - Present <i>Sydney, NSW</i>
<ul style="list-style-type: none">Lead the design, implementation, and testing of the company's SAPIENT protocol implementation, reducing the average integration time for SAPIENT-compliant sensors by 97%.Used my understanding of Go concurrency to remove 100% of the panics from the codebase within 12 weeks of starting, resulting in the system having 100% less crashes per day.Assisted the delivery lead by translating customer and QA feedback into tickets with acceptance criteria.Shared my knowledge of developer best practices with the team lead and implemented these changes, reducing the average time for ticket closure by 1 hour per story point.	
Software Engineer & Consultant <i>Mantel Group</i>	Dec. 2022 - Nov. 2024 <i>Sydney, NSW</i>
<ul style="list-style-type: none">Spearheaded projects with ASP.NET (C#) to architect, uplift, and migrate REST APIs.Created long-lived API workflows using Go, Temporal, gRPC, and Connect RPC.Actively contributing to the Go community through presenting at meetups and conferences, engaging in internal knowledge-sharing, and leading personal training sessions.Contributed to CI/CD pipeline development, authoring of technical documentation, and motivating TDD.Key driver of an internal project leveraging Azure DevBox, Azure Bicep & ARM templates, GitHub Actions, and Terraform for a cutting-edge Azure technology offering.	
Software Engineer <i>MARCS Institute For Brain Behaviour & Development</i>	Jul. 2022 - Dec. 2022 <i>Westmead, NSW</i>
<ul style="list-style-type: none">Spearheaded the development of a Unity and C# cross-platform application for Macular Degeneration treatment, driving the project to success amidst a team with limited technological proficiency.Implemented innovative features, including authentication, eye-tracking technology, and activity-based assessments, significantly enhancing patient diagnosis and treatment monitoring.Enabled data-driven therapy decisions by securely collecting and analysing user performance data, directly contributing to the application's adoption by health professionals for improved patient care.	

OTHER PROJECTS

Soothe	Mar. 2025 - Present
<ul style="list-style-type: none">A full-stack AI service being designed, built, and deployed by me for Harmony Healthcare.Leverages Azure AI Foundry to equip users with the tools to live a fuller life amidst their chronic pain.Partnered with Microsoft through their Founders Program, providing me with resources, support, and professional development.	
Tetrigo	Nov. 2023 - Present
<ul style="list-style-type: none">An interactive TUI (Terminal User Interface) for playing Tetris in your terminal. Built using Bubble Tea.	
Open Source	Long Term; Ongoing
<ul style="list-style-type: none">I enjoy contributing to a range of open-source projects owned by others; see here for a list of projects.	

EDUCATION

Western Sydney University <i>Bachelor of Science in Computer Science</i>	Parramatta, NSW <i>Dec. 2022</i>
<ul style="list-style-type: none">On the Dean's Merit List every year.GPA: 6.23/7	
TAFE <i>Diploma in Programming Digital And Interactive Games</i>	St Leonards, NSW <i>Dec. 2020</i>

TECHNICAL SKILLS

Programming Languages: Go, Dart, C#, TypeScript, HTML/CSS
Frameworks & Libraries: Temporal, Connect RPC, Vue 3, Flutter, ASP.NET Core, Blazor
Cloud & DevOps: Azure, AWS, Docker, GitHub Actions, Azure DevOps, Buildkite, GitLab
AI Development & Tooling: Azure AI Foundry, Azure Prompt Flows, OpenRouter, Claude
Software Development Methodologies: Test-Driven, Cloud-Native, and On-Premises
Database Technologies: PostgreSQL, MySQL, Microsoft SQL Server