

Gylles Varga

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EDUCATION

Western Sydney University

Bachelor of Computer Science

Parramatta, AU

Mar. 2024 – Present

Udemy

The Complete Full-Stack Web Development Bootcamp

Jan. 2025

EXPERIENCE

Software Engineer Intern

Western Sydney University

Mar. 2026 – Jul. 2026

Sydney, AU

- Cut robot-session startup from **8–10 steps to 3** with a one-click desktop launcher and zero-config mDNS tablet discovery, eliminating manual IP entry
- Improved multi-robot usability by enabling **3 tablets** to discover and manage **up to 4 NAO robots** through persistent robot state and **auto-scan/network discovery**
- Built a **900+ automated test** suite (Jest + pytest) spanning frontend, robot bridge, and AI/speech services, with **99%** running hardware-free in CI for regression-safe deployment

PASS Facilitator

Western Sydney University

Jun. 2025 – Jun. 2026

Parramatta, AU

- Lead weekly interactive study sessions for first-year students in programming and statistics
- Design and deliver peer-assisted learning activities using Java, R, and ClaraWorld

Software Developer

Western Sydney Formula SAE

Aug. 2024 – Feb. 2025

Sydney, AU

- Conducted experiments using EUFS to improve autonomous vehicle performance
- Created comprehensive documentation on ROS2 implementation to support future development
- Collaborated with mechanical, electrical, and software teams to integrate autonomous features into the Formula SAE vehicle

PROJECTS

Market Analysis | *Python, Pandas, NumPy, Matplotlib*

Mar. 2026

- Collected and analyzed historical stock market data using Python and Pandas
- Implemented and backtested a moving-average crossover trading strategy
- Simulated portfolio growth and evaluated strategy performance using time-series analysis

Keeper | *React, AWS Lambda, API Gateway, DynamoDB, S3, CloudFront*

Mar. 2026

- Built a full-stack serverless notes application using React and AWS managed services
- Implemented REST API with API Gateway and Lambda for creating, retrieving, and deleting notes
- Designed the data layer using DynamoDB for persistent note storage
- Deployed frontend via S3 static hosting with CloudFront CDN for global delivery

Trail Quest | *Django, Python, JavaScript*

Apr. – May 2025

- Developed a full-stack web application for browsing, submitting, and reviewing hiking trails
- Collaborated in a two-person team using Agile practices to plan features and iterations
- Implemented user authentication, submission forms, and an admin dashboard for moderation
- Designed responsive interfaces for trail listings, profiles, and reviews

TECHNICAL SKILLS

Languages: TypeScript, JavaScript, Python, Java, R, SQL, C++, C

Frameworks & Libraries: Next.js, React, React Native, Django, Node.js, Express.js, Pandas, NumPy, Matplotlib, Supabase, Tailwind CSS, Framer Motion, jQuery

Cloud & DevOps: AWS (Lambda, API Gateway, DynamoDB, S3, CloudFront), Docker, Git, GitHub, Linux, Bash, REST APIs