

Jesse Merhi

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[jmerhi.mov](#)

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github.com/jesse-merhi

CAREER PROFILE

Jesse is a Midlevel Security Engineer and published academic currently working at Atlassian who has,

- A great level of experience in security engineering with a strong understanding of security standards and application security.
- An award-winning paper demonstrating his experience and understanding of Artificial Intelligence and Machine Learning, especially for the development and securing AI/ML-based applications.
- Extensive Industry Development and security automation experience in programming languages such as Python and Golang

EDUCATION & ACADEMICS

Award for the Best Paper at the Privacy, Security, and Trust Conference 2024

Synthetic Trajectory Generation Through Convolutional Neural Networks

- A Machine learning paper that seeks to use generative AI to create synthetic location data for use in publications.
- <https://jmerhi.mov/paper/mbk24.pdf>

Bachelor of Engineering (Honours Class 1) in Software Engineering

2020 - 2024

University of New South Wales

- Faculty of Engineering Dean's Honours List 2020-2022
- 1st in COMP6843 Web Application Security

EMPLOYMENT

Product Security Engineer (Full-time, Hybrid)

Feb 2024 - Present

Atlassian

- Used Python and Golang to create the first Atlassian in-house SAST tool increasing scan coverage from 40% to over 90% in just one month vs. our previous external tool Snyk.
- One of the main AI-Security SMEs in the company demonstrated through several in-depth and long running security reviews completed for high value and public facing features such as Rovo, resulting in identifying over 10 Critical and high level findings.
- Number one on-call product security engineer for security queries, bug bounty and internal vulnerability triage, and general security advice based on queries answered per shift.

Security Culture and Training Intern (Full-time, Hybrid)

Nov 2022 - Feb 2024

Atlassian

- Creator of one of the most well-received training courses for our Vulnerability Management Program delivered to all 6000+ engineers at Atlassian.

- Led a project to create a first-of-its-kind, asynchronous Threat modeling training using LLM-based assessments as well as several other training modules related to least privilege and secure development practices.
- Developed Python automation and productivity solutions to support my direct team in driving engagement and create metrics for our training modules.

Casual Academic Staff (Casual, In-Person)

Jan 2022 - Present

UNSW

- Teaching up-and-coming university students in web application security and introduction to cyber security courses.
- COMP6841 (Extended Security Engineering and Cyber Security), 6843 (Extended Web Application Security and Testing)

Software Engineering Internship (Part-Time, Fully Remote)

Feb 2021 – Aug 2023

Open Insurance

- Created the first set of Python unit tests for the entire platform codebase.
- Creating documentation for the pre-existing codebase.
- Bug fixing and reporting for Python programs
- Understanding the use of popular CI/CD tools such as Docker and Confluence.

Software Junior (Part-Time, Fully Remote)

Jan 2021 – Feb 2022

Superchoice

- Constructing software to automate API Documentation generation of Java code.
- Worked fully online in a virtual team progressing projects and communicating with team members.
- Creating detailed unit tests for financial documentation onboarding flows for production code delivered to several major customers.

Other Notable Experience

Locked Shields

2025

Incident Detection and Response

- Participated in a 3-day exercise that involved detecting and responding to incidents and breaches on over 100+ simulated boxes during Locked Shields 2025
- From the ground up learnt how to use Crowdstrike and quickly identified breach points and remediated vulnerabilities, writing and applying automated scripts across each box.

REFEREES

Ethan Dodge

Security Operations Engineer - Scale AI

Email: e@egd.io

Marisa Fagan

Head of Product at Katilyst | Contributor to OWASP
Security Champions Guide

Email: marisa.fagan@gmail.com

Relevant Links

- 'Alone' Movie: <https://www.youtube.com/watch?v=VQOy16bUYkq>
- 'Pastrami on Rye' Movie: <https://www.youtube.com/watch?v=TwHhMNH6bIs>
- 'Hacking my mother's medical practice' Video: <https://youtu.be/NmeylQGoLiU>