
Tim C

Senior Cybersecurity Engineer

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About Me

Senior cybersecurity engineer with deep expertise in application and infrastructure security, DevSecOps, cloud security, and penetration testing. With a strong full-stack and automation background, I design scalable security architectures, harden CI/CD and API ecosystems, and drive secure development across teams. I also specialize in AI-driven security engineering — building functional AI agents, fine-tuning LLMs for secure code analysis, and integrating intelligent workflows to enhance detection, analysis, and developer productivity.

Experience

Senior Manager – Application Security Design Engineer Macquarie Group - Banking and Financial Service

2023 June to Now

- Designed Noname API security integration architecture with compliance requirement and developing automation for automatic instance redeployment and failover.
- Executed targeted penetration testing on newly released applications and features to uncover potential security gaps.
- Developed security coding templates and fortifying CI/CD pipelines to ensure adherence to best practices.
- Designed and implemented API security solutions in Apigee API gateway according application requirement.
- Built robust Apigee gateway proxies for banking and employee applications, implementing OAuth 2.0 for enhanced authentication.
- Engineered and built a fast docker vulnerability data contextualizer to streamline the process of managing vulnerabilities.
- Engineered the implementation of GitHub Advance Security for organization code repositories.
- Supervised fine tune (SFTed) with QWen-2B and QLoar Llama2-7B with customized CodeQL rulesets for making specialized CodeQL query writers.

Full-Stack Developer - Side Project

2023 June to Now

- Crafted and implemented the backend infrastructure for the Information web application using Node.js Express.
- Developed a responsive frontend interface for the web application using React.js.
- Built and secured CI/CD pipeline through GitHub workflows to automate the deployment process.
- Integrated authentication and authorization with 3rd identity provider via OAuth2.0.
- Developed a variety of data pipelines and web crawler for data searching, collection, parsing and normalization.
- Developed functional AI agents using Python FastAPI, enabling advanced response synthesis and data correlation.
- Engineered prompts and deployed multi-agent workflow for synthesising correct and related response of user's prompt.
- Built deep search AI agent via LangChain and LangGraph with async event generators, real-time user prompt correction.

Lead Cyber Security Consultant Wipro Shelde

2022 May to 2023 May

- Lead initiatives for migrating projects to AWS RDS and automating infrastructure and security baselines.
- Designed and conducted proof of concept (POC) for integrating CyberArk Export Vault Data utility with AWS EC2.
- Provided support for EY tech audits by demonstrating evidence of security controls.
- Developed plugins for CyberArk Privileged Session Manager (PSM) and Central Policy Manager (CPM).
- Designed and implemented Qualys vulnerability scanning solutions and processing report data using AWS Lambda.
- Mentored junior team members to cultivate their skills in automation tools and security best practices.

Cloud Security Engineer Pronto Software

2018 Nov to 2022 April

- Integrated and maintained Nagios as a cloud monitoring solution with emphasis on application-level checks.
- Orchestrated responses to malicious security incidents, conducting thorough incident investigations.

- Integrated VMWare LogInsight with AlienVault to automate the detection and alerting of security events.
- Managed patch solutions for both Windows and RedHat environments.
- Introduced Palo Alto Next-Generation Firewalls (NGFW) into the cloud infrastructure.
- Defined and fine-tuning Palo Alto Intrusion Prevention System (IPS) detection policies.
- Utilized containerization expertise to secure pronto ERP applications within Kubernetes clusters.
- Conducted penetration testing for newly released web applications.
- Managed vulnerability detection solutions and oversaw the remediation process.
- Designed and configured CyberArk Privileged Access Management (PAM) solutions.
- Collaborated with DevOps engineers to manage configuration management using Puppet modules.

Education

Information and Network Security Master
University of Wollongong
2016-2018

Computer Science Bachelor
Shanghai Business School
2010-2014

Programming

Python, Typescript, Fullstack, Bash

Certificates

- ✓ Certified Ethical Hacker V10
 - ✓ AWS Certified Security Specialty
 - ✓ Cisco Certified Internet Expert – Routing and Switching CCIE #41400
 - ✓ RedHat Certified Architect - RHCA ID 140-048-935
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