

# Wiz Lee Zhe Heng

Backend Heavy Full Stack Developer | Specialized in Employment Platforms, Automation, Media & More |  
Building Scalable Solutions with Strategic Impact 🚀

✉ [info@wizlee.dev](mailto:info@wizlee.dev) 📍 Malaysia 🌐 <https://wizlee.dev/> [www.linkedin.com/in/wizlee/](https://www.linkedin.com/in/wizlee/)

## Summary

Senior Software Engineer with 13+ years of experience spanning **online employment platforms, telecommunications, media production, and embedded systems.**

- Proven track record of **rapidly acquiring domain expertise** across diverse industries while consistently progressing to **leadership roles.**
- Strong technical foundation in backend development, full-stack engineering, and test automation, with expertise in **TypeScript/JavaScript, Python, C/C++, .NET, machine learning** and **AWS** cloud technologies.
- Distinguished by ability to seamlessly transition between individual contributor and technical leadership positions, driving **AI initiatives, mentoring** teams, and maintaining high standards for **code quality** and **documentation** practices.

## Experience

**SEEK (JobStreet)** July 2023 - Present

Software Engineer & Interim Lead Engineer

Pioneer backend team member of Career Hub in the Jobstreet App

- Re-engineered **AWS Bedrock** keyword generation pipeline, reducing costs by 45% and improving latency by 50%
- Served as interim team lead managing cross-functional **delivery and stakeholder relationships** during organizational transition
- Performing as both a **Staff (technical leadership) and a Lead (managerial) engineer** for the backend team with 3 engineers
- Led **P2 production incident response** and architected **scalable k6 load testing framework** adopted by external teams

🔧 Skills: TypeScript, Python, Machine Learning, AWS, Microservices, Redis, PostgreSQL

**Grass Valley** Dec 2022 - Jul 2023

Technical Team Lead

Team Lead for AMPP Apps KL team with 3 software developers (1 senior, 1 mid-level and 1 junior) and 1 QA tester.

- Led the AMPP Apps team, transitioning from a software engineer role in a different product team within **2 months.**
- **Built rapport** with not only the wider KL team, also with our team members and stakeholders in UK.

🔧 Skills: Hands-on Technical Leadership, React, .Net Core, Docker, C#

**Grass Valley** Apr 2021 - Nov 2022

Full Stack Software Engineer

Take **ownership over 2 legacy systems** (FileFlow & LiveTouch) each within only 2 months of handover.

- FileFlow is a legacy media processing and orchestration platform consist of 3 components: web apps (jQuery frontend, Java and Scala backend), a Python orchestration backend and a C++ engine. I am the **sole developer handling the FileFlow web apps** (Queue & Search) with its **self-hosted CI/CD Jenkins pipelines and Nexus artefact repository management.**
- LiveTouch is a sport highlights and replay system, now superseded by LiveTouch X. LiveTouch is a **C++ UI application written in a cross platform UI framework called Qt.**

In the same time of supporting the 2 legacy systems, join a new team to **develop a Adobe Premiere Pro editor workflow plugin** integrated with GrassValley new SaaS-based asset management system called Framelight X.

- The plugin is built with .Net Core, C++11 and Angular.
- Contribute to GrassValley **in-house equivalent of FFmpeg**, fixing and adding features to drivers **decoding/encoding audio & video** in a wide variety of codecs and formats

🔧 Skills: C++, .NET Core, Media Production, Angular, Java.

**Motorola Solutions** Aug 2019 - Mar 2021

Software Engineer In Test (SET)

- **Subject Matter Expert:** Support and advice the whole Penang ASTRO team (>20 members) in creating automated tests for **new and legacy two-way radio features.**
- **System Development:** Developed and maintained systems for testing both physical and **virtual two-ways radios** in parallel. Utilized RabbitMQ for test queuing and Python Tkinter for creating the virtual radio software, ensuring timely compilation and notification of test results to stakeholders via email.
- **Team Leadership:** Led a junior team member, facilitating collaboration with US counterparts and **manage stakeholders expectation** locally and in US.

🔧 Skills: C++, Linux, Python Tkinter, Test Driven Development, RabbitMQ

**Motorola Solutions** Mar 2017 - Jul 2019

Software Engineer

- **Scrum Master & Developer:** Led Scrum processes while developing ergonomic UI and debugging lower-level firmware features for two-way radios.
- **Team Initiative:** Volunteered to join a new team to develop a flagship radio device. Later be a top contributing member and thus recognise by the leaders for an **increased responsibility.** Specifically, I trained new engineers on both the new product and on the automation test, thus leads to my new role in Software Engineer in Test.

🔧 Skills: C, SOLID Principles, Real-Time Operating Systems (RTOS), GDB, Git

**Micro Modular System (MMS)** Aug 2013 - Mar 2017

Software Development Engineer

- Rapidly mastered the software component of machine and tester projects, despite initially lacking C# knowledge.
- Independently deployed and powered up machines at customer sites, showcasing **strong problem-solving skills and autonomy.**
- Effectively communicated with stakeholders to analyze requirements from the business department and customers, demonstrating **emerging leadership and collaboration abilities.**

🔧 Skills: .Net Framework, Field Service Engineering, WPF, Windows Internals

## Certifications

**AWS Certified Solutions Architect – Associate** March 2025

Amazon Web Services (AWS)

[https://www.credly.com/badges/a5c5685e-f925-4c1b-93ca-a260ab404ab0/linked\\_in\\_profile](https://www.credly.com/badges/a5c5685e-f925-4c1b-93ca-a260ab404ab0/linked_in_profile)

## Publications

**How to Build a Marketplace with Angular (Etsy Clone)** 07-Aug-2021

A paid publication showcasing CometChat integration. Aside from demonstrating my documentation skill, showcasing my frontend skill in my backend heavy portfolio.

<https://dev.to/wizlee/how-to-build-a-marketplace-with-angular-etsy-clone-1oae>

## Volunteering

**Motorola Solutions** May - Dec 2018

Pioneer and **kick-start the hackathon culture** in Motorola Penang.

1. Organize the first Hackathon in Motorola Penang with good synergy among fellow Hackathon committees.
2. Work with senior leadership of the organization to align event expectation.
3. Create a committee structure consists of several functional groups each with a group leader.

## Education

**Universiti Sains Malaysia** Bachelor's Degree

Electrical and Electronics Engineering (Electronics)

2009 - 2013