

Wiz Lee Zhe Heng

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

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Summary

Senior Software Engineer with 12+ 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)

Software Engineer & Interim Lead Engineer

July 2023 - Present

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
- 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

Technical Team Lead

Dec 2022 - Jul 2023

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

Full Stack Software Engineer

Apr 2021 - Nov 2022

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

Software Engineer In Test (SET)

Aug 2019 - Mar 2021

- 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

Software Engineer

Mar 2017 - Jul 2019

- 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)

Software Development Engineer

Aug 2013 - Mar 2017

- 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

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.

- Organize the first Hackathon in Motorola Penang with good synergy among fellow Hackathon committees.
- Work with senior leadership of the organization to align event expectation.
- 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