

# Wilson Liu

## Personal Information

📍 Wheelers hill 3150, Australia 📠 0452590768 ✉ jiajunliu0024@gmail.com  
🌐 <https://jiajun.com.au>

## WORK EXPERIENCE

### Application Programmer YepAi

📅 06/2024 – present 📍 MELBOURNE, AUSTRALIA

- Researched and implemented a voice cloning model, deploying it as a microservice using FastAPI on AWS to provide advanced text-to-speech functionality.
- Managed and analyzed user data within YepAI, providing valuable insights for reporting and strategic decision-making.
- Deployed AWS Lambda functions to handle sign-in, sign-up, and user password recovery processes for the YepAI website, optimizing user authentication and support.
- Integrated Firebase for comprehensive user management, including authentication, user data handling, and real-time updates.
- Integrated the YepAI management system with a third-party email provider to enhance communication capabilities.

### Software Engineer Huawei Pty

📅 12/2022 – 05/2024 📍 GLOBAL

- Be in a team to complete the precision test platform using the SpringBoot framework.
- Utilize RabbitMQ to manage the message consumption system that collects various test content from different code repositories.
- Proficient in database management using SQL, with a focus on decoupling complex queries to enhance performance
- Develop a predictive model using Neural Networks (specifically Deep Neural Networks - DNN) to automatically generate test scripts for testers.
- Implementing a full test automation pipeline and leveraging automated testing platforms, the workload of testers can be significantly reduced by 50% (more than 4hrs per day per tester).
- Develop the front-end website using Vue3 and JavaScript for an interactive user interface.
- Deploying the in Kubernetes improves scalability and reliability, making it easier to manage.

### Web developer Predictive Digital

📅 12/2021 – 12/2022 📍 AUSTRALIA

- Collaborated with internal teams and Predictive Digital's Enterprise stakeholders (C-suite), identifying their requirements and challenges, and converting them into actionable tasks. (Jira, Confluence, ServiceNow)
- Designed, developed, and tested core system applications and scripts for both batch and online processing in the deposits and loans sectors. (MySQL, Java, Python, RESTful APIs)
- Contributed to the architecture of Predictive Digital's core banking digital transformation projects, focusing on change data capture and data monitoring. (Using AWS EC2, Lambda, Beanstalk, Kafka, Red Hat Enterprise Linux, and Splunk)
- Mentored junior developers by providing technical guidance and creating training resources on banking domain knowledge and coding practices.

## PROJECTS

### Petrol Co

📅 03/2024 – 04/2024

**Skill Sets:** Python, PostgreSQL, AWS (amplify, EC2, Application Load balancer, IAM), React JS

**Descriptions:** a project collecting the petrol information and show the cheapest price near the

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## PROJECTS

user. Also, including the navigation function to search the petrol along the route.

**Link:** <https://petrol-co.com>

**Features:**

- Updated and maintained over 25,000 petrol stations with accurate, real-time information in the Melbourne area.
- Onboarded 100+ active users, helping them save on fuel costs every day.
- Implemented robust AWS infrastructure with load balancing and flow control, ensuring high availability and performance.
- Enhanced user experience with a responsive React.js frontend and seamless Python backend integration.
- Developed a dynamic navigation feature that allows users to search for petrol stations along their route, optimizing their travel experience.

### AI engineer Voice Cloning

📅 06/2024 – present

**Skill Sets:** Python, TensorFlow, PyTorch, Keras, Docker, AWS EC2, and various speech processing libraries

**Features:**

- Successfully achieved a voice synthesis quality rated above 90% in user evaluations, with natural and expressive voice replication.
- Enabled real-time voice generation with minimal latency, improving user engagement and application responsiveness.
- Published findings and methodologies in a technical paper, contributing to the field of voice synthesis and machine learning.

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## WEBSITE

Profolio: <https://jiajun.com.au>

Linkedin: <https://www.linkedin.com/in/jiajun-liu-8a9b681b4/>

Project: <https://www.yepai.io/> <https://petrol-co.com>

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## EDUCATION

### Information Technology | Master University of Melbourne

📅 07/2020 – 12/2021 📍 MELBOURNE, AUSTRALIA

### Computer Science | Bachelor Monash University

📅 07/2017 – 07/2020 📍 MELBOURNE, AUSTRALIA

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## Skills

AWS

Java

Html

CSS

JavaScript

Node.js

Python

Problem-solving

Communication

Collaboration

Adaptability

Time management

Interpersonal skills

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## Social Media



@linkedin



@github



@porfolio