Jiaxu Kang

Melbourne VIC 3000, Australia
M: 0490 074 020 • E: kangjiaxu0605@gmail.com
Jiaxu on LinkedIn • Github • Portfolio

PROFESSIONAL PROFILE

Accomplished IT developer in designing, developing, and deploying scalable, highly available, and secure applications on the web technology stack with expertise in programming using Java and Python. Skilled in writing high-quality, efficient code using object-oriented methods, SQL, and data processing. A fast learner who excels in dynamic work environments and highly motivated to leverage skills to drive success in the next role. Proficient in implementing new optimisation techniques and utilising the latest frameworks to improve web speed and user engagement.

EDUCATION & QUALIFICATIONS

Master of Science in Information Technology | The University of Melbourne – Melbourne, AU | Mar 2021 – Dec 2022

Bachelor of Science in Computer Science | University of Arizona – Tucson, US (GPA 3.5/4.0) | Jan 2017 – May 2020

PROFESSIONAL & TECHNICAL SKILLS

Programming Languages: **Java, Python, HTML, CSS, JavaScript**

Development Frameworks: **SpringBoot, Spring, Mybatis-Plus, FastAPI, RESTAPI, SQLAlchemy, React.js**

Various Technical: **Git, Docker, Kubernetes, DevOps, AWS, Slack, Jira, VS code, Intellij, Confluence**

Databases: **MySQL, PostgreSQL, Firebase, Redis**

Operate Systems: **MacOS, Windows, Linux**

Various Professional Skills: **Python/Java Programming, Agile Methodology, Cross-Functional Collaboration, Project Management, Problem-Solving, Communication, Adaptability, Attention to Detail**

EMPLOYMENT HISTORY

JUNIOR SOFTWARE ENGINEER

ItemTube – Melbourne, Australia | Dec 2022 – Present

- Collaborate with a team of 6 developers to design and develop the back-end operations of the web project using Python, FastAPI/RestAPI, PostgreSQL, SQLAlembic, Docker and Kubernetes.
- Participate in daily stand-up meetings with the development team to discuss project status and plan upcoming tasks.
- Write efficient and maintainable code while adhering to coding standards and best practices.
- Conduct thorough testing of the back-end to identify and fix bugs and ensure smooth integration with the front-end.
- Collaborate with the front-end development team to ensure seamless communication and integration between the front-end and back-end systems.

Key Achievements:

- Designed and developed a Python-based web project using FastAPI to efficiently manage the company's business operations, resulting in a 50% increase in productivity.
- Optimised the web project using the latest frameworks and implemented new optimisation techniques to improve web speed by 20%.
- Collaborated with cross-functional teams to implement new features and functionalities, resulting in an enhanced user experience and improved customer satisfaction.

FRONTEND SOFTWARE ENGINEER – INTERN

Soon Metaverse – Melbourne, Australia | Sep 2022 – Dec 2022

- Worked collaboratively with the design team to translate mock-ups and wireframes into high-quality, pixel-perfect web pages using HTML, CSS and JavaScript.
- Developed and maintained cross-browser compatible websites and ensured that all were optimised for fast load times and SEO.
- Conducted code reviews and implemented best practices to improve code quality and maintainability.

Key Achievements:

- Collaborated with cross-functional teams, including designers and backend engineers, to implement new features and optimise website performance, resulting in a 20% increase in website speed and a 15% increase in user engagement.
- Developed and maintained Soon Meta and Soon Tech Group's responsive and accessible websites using HTML, CSS and JavaScript, resulting in an improved user experience and increased traffic. (Websites: https://soonmetaverse.com/; http://soontechgroup.com/)

KEY IT PROJECTS

CLUTCH JOBBER: JOB MANAGEMENT SYSTEM | Dec 2022 – Present

- Technology: Python, FastAPI, PostgreSQL, SQLAlembic, Docker, Kubernetes, Git
- Developed 'Clutch Jobber', a job management system using Python and technologies such as FastAPI, PostgreSQL and SQLAlembic utilising Agile methodology and project management skills to ensure successful development.
- Customised an online request form that increased lead qualification by 30% and reduced appointment scheduling time by 50%.
- Implemented a payment system using Stripe API that reduced payment processing time by 70% and improved transaction accuracy by 90%.
- Developed Customer, Inquiry, Quotes, Job and Invoice boards that improved team productivity by 40% and reduced invoice errors by 80%.

Takeout Application | Jul 2022– Jan 2023

- Technologies: SpringBoot, MyBatis-Plus, AWS S3 EC2, MySQL, Redis, Docker, Spring, Git.
- Develop a takeaway software with a user-friendly interface for customers to easily view and order products. Additionally, create a backend management interface for merchants to manage dishes and monitor customer orders, enhancing the efficiency of the ordering process.
- Utilize the SpringBoot framework to design and implement the backend. Employ MyBatis-Plus to manage the MySQL database in AWS RDS and optimize performance through a master-slave database configuration.
- Develop versatile and user-friendly APIs to streamline functionality. Incorporate Redis caching to improve program throughput.
- Utilize Docker to create a Docker Compose file for streamlined deployment. Deploy the application on AWS EC2, ensuring uniformity across the Linux system for simplified and automated deployment.
- Client mobile demo (mobile size): http://takeout.codekang.live/takeout/index.html.
- Backend Management demo: http://takeout.codekang.live/takeout-admin/index.html.

Library Management System | Dec 2021 – Jul 2022

- Technologies: SpringBoot, MyBatis, AWS, EMu API, Rest API, React.js, Nginx, Git.
- Designed and developed a Library Management System to enhance the organisation and accessibility of library materials. Held weekly meetings with clients and supervisors to provide updates on project progress and share Github source codes.
- Designed and implemented a back-end database using SpringBoot and MyBatis on AWS, connected to library databases using EMu API. This involved optimising database performance, ensuring data integrity and implementing security protocols.
- Improved the search algorithm and transferred the database from the back-end to the front-end using Rest API, resulting in faster and more accurate search results. This involved analysing user behaviour and search patterns to identify areas for improvement and testing different search algorithms to find the optimal solution.
- Created a user-friendly interface for the Library Management System, incorporating feedback from users and stakeholders to ensure usability and accessibility. This included designing the front-end using React.js and integrating it with the back-end using Rest API.

P2P FILE TRANSFER SYSTEM | May 2021 – Jan 2022

- Technologies: Java, BitTorrent protocol, multi-threading, thread pool, JavaFX, Git.
- Developed a P2P file transfer system that enabled file sharing, searching and downloading using the BitTorrent protocol. Additionally, the team implemented a server tracker that recorded seed information and peer addresses.
- Utilised multi-threading and thread pool techniques to enable simultaneous downloading and accepting of requests from multiple peers. This approach enhanced the efficiency of the system and provided a seamless experience for the users.
- Contributed to the development of the system's graphical user interface using JavaFX. The user interface was user-friendly, visually appealing and designed to ensure ease of navigation for the users.
- Published the project on GitHub and collaborated with a team of developers to ensure its success. The link to the GitHub repository is *https://github.com/jiaxukang/P2PFileTransfer*.