

Zhifa Qiu

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Software Engineer (Full Stack)

Highly skilled Software Engineer with a Bachelor of Computer Science from The University of Wollongong and extensive experience in developing innovative software solutions. Proficient in JavaScript, Python, TypeScript, and various web technologies including React, NextJS, and Node.js. Adept at optimizing workflows through automation, enhancing application performance, and delivering tailored solutions to meet client needs.

PROFESSIONAL EXPERIENCE

Auxilis Pty Ltd, Wollongong, NSW, Australia

Auxilis Pty Ltd is an Australian product-based scale-up company focusing on optimizing workflows through automated data extraction from complex sets of documents using Gen-AI, Machine Learning and Computer Vision. The Auxilis company (via its Extractly.AI brand) also specializes in software for accounting and audit companies, focusing on data extraction from complex invoices and financial statements.

Software Engineer – Full Time

Aug 23 – Present

Software Engineer – Part Time

Aug 22 – Aug 23

- **Extractly+**

- o Won the Software Developer of the Year award for designing and developing Extractly+, a web application/Excel add-in product, from conception to market in just 6 months. This product has become a pillar for the company, attracting domestic and international audit and accounting customers, and was showcased at major audit and accounting expos in the United Kingdom and France.
- o Demonstrated a successful proof of concept (POC) in just two weeks, securing over \$200K in funding from a major accounting firm to develop it into a full-fledged product. The product, featuring optical character recognition and OfficeJS integration, automates data extraction, eliminating manual searching and reducing transposition errors, thereby cutting auditing time from days to just a few hours
- o Extractly+ is a modern React application, powered by the Serverless Framework and OfficeJS, to streamline workflows by automating data extraction from PDF documents, validating the data, and exporting it to Excel via an Excel add-in. The integration with Excel ensures the application is intuitive and easy to use for the accounting business..
- o Served as the lead developer in a team of five, overseeing the project's execution, delivery, and ongoing support.
- o Received a 4.2 out of 5 rating from a survey of over 20 users at a major accounting firm, with users reporting significant time savings.
- o Implemented caching and preprocessing mechanisms to enhance performance and reduce API calls.
- o Built the frontend using React, Tailwind CSS, and Headless UI, and integrated OfficeJS for seamless Excel interaction.

- **Horizon Investment**

- o Developed a MERN stack application (MongoDB, Express.js, React, Node.js) designed to enhance investors' ability to gain insights, track trends, and optimize investments for wealth growth.
- o Served as the lead developer, managing the project's execution and delivery.
- o Engaged directly with clients to understand their requirements, providing tailored and optimal solutions to meet their needs effectively.
- o Addressed a key challenge of API rate limits from a third-party stock data provider by implementing time-based and on-demand revalidation. For example, cash flow data is updated only when companies release their financial reports. A timestamp-based mechanism was used to determine whether to fetch new data from the API or use cached data.

- o Utilized Chart.js to create and display dynamic stock price charts and other financial indicators, such as balance sheets.
- o Integrated Stripe for handling payments and subscription management.

Aubot, Remote, Australia

During the pandemic, Aubot started creating a virtual computer science program for school kids. This new program teaches kids ages 7-18 computer science, virtually, through an online platform, supervised remotely, to gain up to a 2nd year university-level computer science knowledge, learning through activities that are related to the real-world.

Software Developer (Internship)

Feb 22 -Dec 22

- Developed key sections of a virtual computer science curriculum for students aged 7-18, focusing on Python ("Functions", "Files", "Strings", "Debugging").
- Engineered interactive React-based tests to assess and enhance student learning experiences.
- Contributed to a team creating educational content during the COVID-19 pandemic, supporting remote learning advancements.

PROJECTS

NextJS Blog

Developed using NextJS, this blog serves as a dynamic platform where I share knowledge and insights gained from my experiences at the workplace, workshops, and while solving problems on LeetCode. Designed not only as a tool for community engagement but also as a personal portfolio, it provides readers a deeper understanding of my professional journey and technical expertise. Through this blog.

TECHNICAL SKILLS

Programming Languages: - JavaScript, Python, TypeScript

Web Technologies: - HTML, CSS, Git, React, NextJS, Node.js, Prisma, Tailwind CSS, Dynamoose, Express

Cloud Platforms: - Amazon Web Service (AWS)

Databases: - DynamoDB, MongoDB, MYSQL, PostgreSQL

Others: Jira, git, Bitbucket, GitHub, Vercel

Soft Skills: - Collaboration, Communication, Creativity, Problem-solving

EDUCATION

Bachelor of Computer Science (Distinction)

Mar 20 - Dec 22

The University of Wollongong, NSW, Australia.

CERTIFICATIONS

AWS Certified Solutions Architect - Associate

2023

AWS Certified Cloud Practitioner

2023

VOLUNTEERING

University of Wollongong, NSW, Australia

EIS Student Mentor Program Mentor

2022

REFERENCES

Annie Chong | Program Manager – Auxilis Pty Ltd | Sydney, Australia | annie_chong99@outlook.com

Parijat Kinshuk | COO – Auxilis Pty Ltd | Wollongong, Australia | Parijatkinshuk@gmail.com

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