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 Haolin

## HAOLIN WU

I am a Software Engineer with four years of industry experience developing in professional environments. During that time, I have handled entire software life-cycles including analysis, testing and DevOps, whilst working in teams both as a developer and project manager. My work has impacted hundreds of thousands of customers, and given me a customer-first mindset during the entire DevOps lifecycle.

With a double major degree in both computer science and data science, I am also well versed and have practical experience in web development, data integration, data visualization, data mining, high performance computing, and machine learning (incl. deep learning).

I am hard working, pay attention to detail, work well in teams, and manage my time well to meet deadlines.

### EDUCATION

2020 – 2021	<b>Bachelor of Science (Honours)</b> Honours in Computer Science and Data Science Research Topic: <i>Deep Learning for Information Extraction from PDF Tables</i> First Class Honours, 6.375 GPA	The University of Western Australia
2016 – 2019	<b>Bachelor of Science (Double Major)</b> Degree Specific Major: <i>Computer Science</i> Second Major: <i>Data Science</i>	The University of Western Australia

### EXPERIENCE

2022 - current	<b>Software Engineer</b> Developed and maintained various components across Telstra.com for Telstra Digital. Lead the development in Telstra Outages, a tool used by hundreds of thousands of customers to visualize network outages and outage areas. Developed using a variety of modern practices such as Test Driven Development (TDD), continuous integration and frameworks. Additionally, added logging and monitoring for traffic and statistics through Splunk and New Relic. TypeScript / React / Splunk / New Relic / AEM / Splunk / Java	Telstra
2021 - 2022	<b>Software Engineer</b> Developed a REST API using Django Rest Framework to replace an existing NoSQL database to improve referential integrity and scalability. The API integration was implemented within a legacy AngularJS application, and then containerized using Docker, with continuous integration through GitHub Actions. A Secure Development Lifecycle (SDLC) was used, along with Test Driven Development (TDD) approaches. The application was then deployed using AWS. Django Rest Framework / Docker / Python / TDD / CI/CD / SDLC / AngularJS	FairSupply Analytics Pty Ltd.
2020 - 2021 part time	<b>Casual Academic</b> Casual Academic for CITS3403 Agile Web Development and CITS3004 Cybersecurity. Teaching agile methodologies, Python3 web frameworks, and continuous integration and deployment techniques. Additionally teaching containerization through Docker, web vulnerabilities, white hat hacking, and cyber-attack prevention. Python / Flask / Docker / Git / JS / PostgreSQL / CTFs	The University of Western Australia
2019 – 2021	<b>Full Stack Engineer</b> Project management system developed for the Raine Study, a scientific study collecting data over 30 years from a cohort of participants. I used agile methodologies with Python/Django back-end and JQuery front-end technologies, while deploying to AWS services such as EC2, RDS, and S3. Python / Django / Bootstrap / Git / JS / AWS	The Raine Study / UWA Centre for Software and Security Practice

2018 – 2019	<b>Front-End Developer</b> User interface and user experience (UI/UX) development of software for BHP, PwC, and other companies using Ruby and React. JS / Bootstrap / Redux / React / CSS / JSX	Corporate Governance Risk Pty Ltd
2017 – 2018	<b>Software Intern</b> Full stack development of a variety of small apps for clients of UWA CSSP. Python / Django / HTML / CSS	UWA Centre for Software and Security Practice

## ACHIEVEMENTS

2020	<b>Teaching Commendation</b> For outstanding teaching in CITS3403, Agile Web Development	The University of Western Australia
2018	<b>Unearthed Hackathon Young Innovator Winner</b> Sponsored by BHP and Amazon AWS	Unearthed Solutions, Perth
2010-2014	<b>Scotch College Dual Scholarship Recipient</b> Dual Scholarship Recipient in both Academics and Music	Scotch College, Perth

## HIGHLIGHTS

Startup	<b>Archee - Agile Toolkit</b> Working in agile teams, often tools online were pay-walled or had very poor UX. After building a solution to the popular agile planning strategy Planning Poker, I decided to extend this to building an agile toolkit. This became Archee, and is an application we manage free of charge for hundreds of users every month. NextJS / React / TypeScript / Vercel / AWS / Websockets / PlanetScale
Research	<b>Deep Learning for Information Extraction from PDF Tables</b> Honours research project exploring deep learning methods for extracting tabular semantics from tables inside PDFs into a machine readable format using <b>TensorFlow</b> and <b>PyTorch</b> . Allows for older PDF documents and forms such as maintenance procedures and medical discharge letters independent of domain to be stored as JSON and standardised. The project surveys, implements, and integrates Computer Vision and Natural Language Processing techniques for table extraction and semantic relation identification.
Project	<b>Various Projects</b> Some projects completed over the years include machine learning web applications, customer transaction applications, and webhook cronjob integrations. These projects are often developed using Test Driven Development (TDD), Continuous Integration and Deployment (CI/CD), and DevOps principles. These projects can be viewed in detail within my portfolio. <a href="https://www.haolin.dev">https://www.haolin.dev</a>

## REFERENCES

<b>Alvin Chong</b> Software Engineering Team Lead at Telstra +61 383 877 403 alvin.c.chong@team.telstra.com	<b>Professor Melinda Hodkiewicz</b> BHP Billiton Fellow, School of Engineering, The University of Western Australia +61 8 6488 7911 melinda.hodkiewicz@uwa.edu.au
<b>Dr. David Glance</b> Information Security Consultant +61 408 916 579 david.glance@gmail.com	<b>Dr. Tim French</b> Senior Lecturer at The University of Western Australia +61 8 6488 2794 tim.french@uwa.edu.au

## LANGUAGES

**English** - native  
**Chinese Mandarin** - fluent

## HOBBIES

Coding is an art to me. In my spare time I enjoy automating tasks in my day to day life, such as smart home integration and some custom Fintech. I also love playing piano, acrylic painting, swimming, and fishing.

## NON PROFIT

I created **Archee**, an agile toolkit to help planning sprints, after identifying a need of a tool in my team. I created software to manage the **UWA Ethical Hacking Club**, allowing weekly events and notifications. Additionally I taught English to international students at **Melbourne University**.