Han Zong (John) NG

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SUMMARY

Results-driven **Software Developer** with over 4.5 years of proven expertise in full-stack development. Possessing a strong understanding in the **education industry**, its requirement for IT solutions and pain-points. Involve in **developing data integration software** (middleware) to support the arrays of SaaS platforms used within the **Higher Education** space. Led the development of a robust web application – an **e-book reader** and **license subscription management system** – with a user base of 200,000, including 20,000 weekly active users. **Proficient in a diverse technology stack** encompassing *Django (Python)*, *Ruby-on-Rails (Ruby)*, *PHP*, *ASP.Net (C#)*, *ReactJS*, and databases such as *PostgreSQL* and *MySQL*. Engaged in **Agile development**, actively contributing to daily stand-ups, sprint planning, and retrospectives. Demonstrated hands-on experience in **DevOps**, implementing CI/CD with automated testing, code linters, and streamlining deployment processes. Additionally, possess expertise in **system administration**, managing *Microsoft Active Directory*, *endpoint security*, *patch management*, and *Linux server maintenance*.

Holds a **Bachelor's Degree in Computer Science** from Swinburne University of Technology (Melbourne) and is fluent in spoken/written **English** and **Chinese Mandarin**. Currently based in **Adelaide, Australia**.

SKILLS

Software development Django (Python), Ruby-on-Rails (Ruby), PHP, ASP.Net (C#), ReactJS, JavaScript, jQuery, PostgreSQL, MySQL, REST API.

DevOps GitLab (self-hosted), GitHub, Ansible, Docker, EngineYard, AWS, DigitalOcean, Automated testing (RSpec, unittest, MSTest) and various other CI/CD tools (linters and cops).

System administration Microsoft Active Directory, Endpoint security, Patch management, Cloud VM (Linux) instances management, VM instance snapshot backup management.

WORK EXPERIENCE

Flinders University of South Australia, Adelaide Australia   Mar 2024 – Present

Senior Platform Developer and Analyst

Responsibilities:

- Analyst, design, develop and deliver **platform integration solutions** using Django (Python), JavaScript, Ansible, MySQL, Powershell scripting, and SAML2 (SSO Auth).
- Involve in half a dozen of in-house **Django applications** designed to support the **integration infrastructure** as well as University's course **content deliverance**.
- Provide **daily operation support** on third-party SaaS platforms and in-house

developed integration solutions.
- **Collect solution requirements** from stakeholders and users to develop new (refining existing) internal software to support the functioning of the University.
- **Collaborate software testing** across multiple groups of stakeholder and user.
- **Provide instruction and training** to users on the in-house software solutions.

Haese Mathematics, Adelaide Australia   May 2020 – Mar 2024
IT Programmer (Full time)
Responsibilities:
- Spearheaded the development of an **e-book reader** web application in **Ruby-on-Rails**, and **PostgreSQL**, in a **team of 6**.
- Played a pivotal role in developing and maintaining a **license subscription management system** using **Ruby-on-Rails**, **jQuery**, **PostgreSQL**, in a **team of 6**.
- Build and maintain an **online bookstore** web application with payment gateway integration, order processing for an off-site warehouse, and invoice generation.
- Independently developed a **scalable web form** with **PHP and REST API**, enabling public users to effortlessly request free trial licenses for the e-book, resulting in a 800% increase in trial conversions.
- Independently developed interactive educational games to accommodate the e-book using **ReactJS** and **REST API**.
- Enhanced **application security** by implementing robust code reviews, optimizing architectural design, and introducing best practices.
- Actively participated in bi-weekly sprints, contributing to agile ceremonies and ensuring timely project delivery.
- Implemented an optimized **CI/CD pipeline** using **GitLab**, **EngineYard**, **DigitalOcean**, **AWS**, and **Docker**, resulting in a significant reduction in deployment time.
- Effectively **managed Linux VM instances**, including OS upgrades, security patches, and performance optimizations, ensuring system reliability and security.
- Led a comprehensive operating system **upgrade project** for an SMB server (Zentyal) from **Ubuntu 16.04** to the latest version (**Ubuntu 20.04**), meticulously testing and revising the plan on a digital twin, ensuring a smooth transition and enhanced system performance.

Software Leadership, Adelaide Australia   Sep 2023 – Dec 2023
Software Developer (Remote, Contract)
Responsibilities:
- Develop an **interactive data visualisation tool** using **Django (Python), Bokeh (Python library), Javascript, and PostgreSQL**.
- Setup the production environment on a **DigitalOcean** VM instance and design the CI/CD workflow that performs automated testing and deployment.
- Actively participated in bi-weekly sprints, contributing to agile ceremonies and ensuring timely project delivery.

Dynamic Creative, Adelaide Australia   Jan 2020 – Apr 2020
Graduate Software Developer (Full time)
Responsibilities:
- Develop and maintain in-house software applications (**Ruby-on-Rails**, **ReactJS**, **PostgreSQL**).
- Follow **Agile** (bi-weekly sprint) Methodology.
- **CI/CD** with GitHub, EngineYard.

- Formulate and provide solutions to client specific software requirements.
- Keep APIs up-to-date for e-commerce platforms (eg. Shopify, Magento, WooCommerce).

Language Discovery, Melbourne Australia   Jan 2019 – Jan 2020
Web Developer (Remote internship)
Responsibilities:
- Develop and maintain ASP.NET applications (**ASP.NET**, **JavaScript**, **MySQL**).
- System design implementation and documentation.
- Graphical user interface design and development (JavaScript, Bootstrap.css).

EDUCATION

Bachelor's Degree of Computer Science   2017 – 2019
Swinburne University of Technology (Melbourne, Australia)

CERTIFICATE

Google IT Support Professional Certificate online via Coursera

EXTRACURRICULAR ACTIVITIES

Swinburne University of Technology   Jan 2019 – Dec 2019
Student Representative Council (SRC): Head of Faculty (FSET) & Undergraduate Student Representative
FSET - Faculty of Science, Engineering, and Technology
Responsibilities and Outcomes:
- Spearheaded **communication** between students and the faculty stakeholders, **contributing valuable insights** to enhance the overall student experience.
- Collaborated closely with university department staff to implement initiatives aimed at elevating the educational standards across the university.
- Orchestrated and **chaired five formal student-staff meetings**, fostering open discussions on student-related matters and addressing concerns within the university community.
- Demonstrated strong **leadership** by managing a dynamic team of 12 members, ensuring efficient collaboration and effective execution of tasks.
- Facilitated the induction program for newly elected members, fostering a smooth transition and continuity in the council's objectives.

Overseas Christian Fellowships, Swinburne   Sep 2018 – Oct 2019
Club President
Responsibilities and Outcomes:
- **Led** and **chaired** the Overseas Christian Fellowships (OCF) social club, overseeing day-to-day operations and fostering a welcoming community for members.
- Successfully **managed twice-a-week gatherings**, providing a platform for club members to connect, share, and engage in meaningful discussions.
- Orchestrated over **15 events**, including a large-scale inter-university gathering with **150+ participants**, enhancing the club's visibility and impact.
- Collaborated with OCF counterparts from **15 universities across Australia**, working

collectively to achieve the club's overarching vision and mission.
- Organized and led more than **10 meetings**, adeptly preparing meeting documents, ensuring effective communication and coordination within the club.

PROFESSIONAL REFERENCE

Will be provided upon request.