NG JING WEI (ETHAN)

Address:	Tampines, Singapore 525626
Email Address:	ethannjw@gmail.com
Nationality:	Singapore Citizen

TECHNICAL SKILLS

Programming Languages
- GoLang
- JavaScript/TypeScript
- React
- Python3
- C++/C
- C#
- Java

Tools
- Git, GitHub, GitLab
- Kubernetes
- Docker
- Jupyter Notebook

Qualifications
- AWS Certified Solutions Architect
- AWS Certified Cloud Practitioner

Others
- Jira
- Confluence

PROFESSIONAL EXPERIENCE

Senior Software Engineer   *Apr 2025 – Present*
Autodesk Ltd   **Singapore**

- Architected high-throughput API systems supporting 12,000+ transfers per minute, driving scalability and reliability for mission-critical operations.
- Led cross-functional teams and external vendors through the full software development lifecycle, overseeing solution design, project management, and successful integration.
- Provided technical leadership as Scrum Master, mentoring team members, facilitating agile ceremonies, and reporting progress to senior management.
- Presented technical solutions and innovations at company-wide conferences with 10,000+ attendees, establishing thought leadership in scalable, intelligent systems.
- Collaborated with sister teams to deliver high-priority, time-sensitive projects, ensuring cross-team alignment and successful execution.

Software Development Engineer   *Jan 2022 – Mar 2025*
Autodesk Ltd   **Singapore**

- Designed and implemented event-driven, asynchronous data management and notification systems on AWS (SQS, SNS, Lambda, ECS) for real-time, minute-based usage tracking and analytics.

- Developed and optimized high-performance, low-latency backend services leveraging Amazon SQS, ECS, Lambda, and Redis, supporting analytics and AI/ML workflows.
- Integrated observability and monitoring solutions using Splunk, OpenTelemetry, Dynatrace, AWS Metrics, and Grafana to ensure system health and rapid incident response.
- Automated infrastructure and deployment pipelines with Jenkins, Spinnaker, Terraform, and AWS CloudFormation, enabling seamless CI/CD and rapid iteration.
- Supported production systems on-call, resolving L1–L3 incidents and ensuring high availability and reliability.

Application Developer   *Nov 2020 – Dec 2022*
Zionext Pte Ltd   *Singapore*

- **Designed scalable microservice architectures** by analyzing user requirements, enabling flexible and maintainable software solutions.
- **Developed cross-platform mobile applications** using React Native for learning and content management, enhancing user engagement and accessibility.
- **Built and customized Content Management Systems (CMS)** to address unique customer requirements, improving content delivery and user experience.
- **Engineered backend services in Node.js,** integrating multiple microservices via GraphQL APIs for efficient data retrieval and system interoperability.
- **Created responsive React web applications** for Business Process Management, adhering to OpenAPI specifications for seamless API integration.
- **Maintained high code quality** by writing comprehensive unit and integration tests, consistently meeting stringent testing and reliability standards.
- **Utilized Git for version control** and managed CI/CD pipelines as part of daily development workflow, ensuring rapid and reliable code deployment.
- **Practiced Agile methodologies,** actively participating in all Agile ceremonies and contributing to iterative, team-driven development cycles.
- **Mentored and coached junior developers,** fostering knowledge sharing and supporting team growth.

EDUCATIONAL BACKGROUND

Bachelor of Science in Computer Science and Business Information Systems
Murdoch University, Perth, Australia   *2019 – Present*
GPA: 3.57/4

Master of Science in Materials Science and Technology
Loughborough University, Leicestershire, UK   *2010 – 2011*

SOFT SKILLS

Effective Communication, Strong Team Player, Troubleshooting, Project Management, Time Management

References

References available upon request

Keywords

python; java; django; Flask; SQL; SQLAlchemy, HTML5; CSS3; HTML4; CSS; extract; lransform; load; ETL; ORM; object relational mapping; data warehouse; data warehousing; pandas; data scientist; data engineer; data administrator; data consultant; data processing; cyber security; microsoft excel; microsoft office; C programming; C++; C#; .NET; Visual Basic; adobe; photoshop; premiere; jupyter; git; github; intelliji; xcode; troubleshooting; debugging; testing; unit test; selenium; numpy; python3; requests; json; API; REST; database administration; HTTPS; framework; ANN; artificial neural network; expert system; genetic algorithm; tensorflow; facial recognition; ERD; Entity Relationship Diagram; stats; SDLC;
Software development life cycle; automation; machine learning; AWS EC2; AWS; amazon web services; shell; scripting; 3+ year; agile; scrum; degree; developer; software; bootstrap; redis; spring boot; Kubernetes; docker; open telemetry; I know Programming