KEITH WONG JUN HSIEN

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WORK EXPERIENCE

The Software Practice (Software Developer - Backend Microservice)   Sep 2022 – Jan 2025 (2yr 5months)
- Developed, maintained and deployed continuous improvements to 2 government projects used by more than 30,000 users.
- Developed 3rd party integrations with Cumulus and SFTP servers for GIRO payment updates and financial reporting.
- Refactored PDF certificate signing process - from SignSg Api (deprecated Aug 2023) to an organization purchased certificate.
- Optimized long running SQL queries from more than 3 minutes to less than 100ms.
- Resolved an average of 20+ technical issues and investigations per week, meeting SLA agreements.
- Supported database and infrastructure audit initiatives - database backups, integrity checks, account management.
- Initiated a culture of documentation and knowledge transfer sharing in a team of 9 developers.
- Tech stack: C# ASP.NET 6, LINQ, Entity Framework, Dapper, Dapr, Tye, SQL, Docker, Azure (AKS, Log Analytics, SQL Server/ Database, Key Vault, Cost Management), GCC, Techpass, SonarQube

Hyperganic Group GmbH (Platform Lead, Software Developer)   Mar 2021 – Sep 2022 (1 year 6 months)
- Lead a team of 7 with active involvement in development, deployment, and maintenance of the following:
  - Web Application (License and User Management – Ruby on Rails, Sass, JavaScript, Heroku, PostgreSQL, Mailgun)
  - Forum (Discourse) and GitLab (SAML auth) – Both self-hosted on Digital Ocean with Single-Sign-On (SSO)
  - AWS (Cloudfront, S3, EC2, Route53, LightSail, IAM, CodeDeploy, Lambda, RDS)
  - Jenkins (EC2 host)
  - Website (https://www.hyperganic.com – Wordpress)
  - Metabase – Data analytics
- Self-hosted 2 open-source applications on Digital Ocean with Single-Sign-On (SSO) and integrated push notifications to Slack.
- Developed a desktop app launcher (C#) to download, update and launch multiple desktop applications on Hyperganic Core (C++).
- Transformed the deployment of desktop applications from a static to dynamic service structure – Rails web application.
- Implemented CI/CD pipelines with automated testing and coverage reports (Rspec, Capybara, SimpleCov)
- Performed version upgrades for Ruby (2.6.6 to 2.7.6), Rails (4.0 to 5.2.3) with code, dependencies, and configuration refactoring.
- Collaborated with the design team to develop curriculum and knowledge base services with new UI and UX refreshes.
- Resolved licensing and networking issues and provided customer support to customers from China, Germany, Singapore.
- Travelled to Munich, Germany for a month and collaborated with colleagues from over 10 different nationalities across 5 different time zones – Germany, Argentina, Singapore, Dubai, USA.
- Liaised with CyberCX to perform Security Audit on Hyperganic's web application, AWS and desktop applications.
- Deployed a Ruby on Rails web application on Gitpod used for Full Stack interviews.
- Interviewed 24 candidates together with Tech Lead for Full Stack, QA, DevOps, and Security positions.

Bridges for Enterprise (Technology Associate)   Dec 2020 – Mar 2021 (4 months)
- Developed shopping cart, wish list, and auto-generated invoice (HTML to PDF) features for eMsika, an agriculture e-commerce platform based in Zambia with 7 other developers with the use of Agile software development practices.
- Tech stack: PHP, Laravel Livewire, MySQL, Jira, Confluence, GitLab.

Softworkz Pte Ltd (Flutter Developer Intern)   Jan 2020 - Apr 2020 (4 months)
- Developed and deployed visitor declaration and temperature taking features (USB thermal camera – FLIR) on the OLA mobile visitor management application used in more than 10 Primary and Secondary schools.
- Tech Stack: Flutter, C#, MSSQL, GitLab. | Site: http://www.softworkz.net/About-Us

Accountant General's Department (Business Analytics Intern)   May 2019 - Aug 2019 (4 months)
- Presented a customized data pipeline project to Energy Market Authority (EMA), delivering solutions in data cleaning, blending and solving split-purchases problems via the Fi@Gov platform and Microstrategy dashboards.
- Represented AGD in the Fi@Gov User Acceptance Testing (UAT) sessions comprising over 13 government agencies with regards to topics such as Claims, Late Payments, and Budgeting.

CERTIFICATIONS
ICT Assessment Certification for Software Developer   30 Apr 2024 - 19 Apr 2027
Certification for Government ICT Tender Projects - https://bitly.cx/ykGnD

PROJECTS
Social Networking Analysis Web Application – SMU BIA
- Developed a network analytics web application to identify customers of high influence, who are potential nodes for referrals marketing and sales as part of SMU BIA's collaboration with Orca Active. Write up on Medium: https://bit.ly/3kZgUh8
- Tech Stack: HTML, CSS, JavaScript, JQuery, Django, Python, Heroku (Host), NetworkX Package (Centrality Metrics), AnyChart framework (Graph Rendering).

EDUCATION
Singapore Management University   Aug 2017 – May 2021
BA(Hons) in Accounting (Cum Laude): Dean's List AY18-19

OTHERS
Languages: English, Mandarin | Interests: Bouldering, NeoVim, Arch Linux, Vue.js