Heng Cher Hiong, Chester

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Summary

Certified Professional in the field of Info-comm Technology (ICT) with 15+ years of combined experience as a Frontend Engineer in FinTech domain, an IT Technical Trainer in the continuing education and training (CET) sector, an IT Lecturer in the Pre-Employment Training (PET) sector and a Software Developer in the telecommunications industry. Specialized in MongoDB, Express JS, React JS, and Node JS (MERN) and develop web applications.

Technical Skills

- JavaScript
- TypeScript
- React and Redux
- Material UI
- Node and Express
- Knex and Objection
- Docker and Kubernetes
- Unit and Automation Testing
- Web Security
- Web Performance

Soft Skills

- Communication
- Efficient Learning
- Problem Solving
- Sprint Planning
- User Story Writing
- Effort Estimation
- Project Implementation
- Technical Debt
- Risk Management

Pedagogy Skills

- Learning Theory
- Instructional Design & Development
- Classroom Activities Planning
- Classroom Management

Work Experience

GIC Private Limited, Full Stack Software Engineer, Mar 2021 to Apr 2022

- Build Wealth Management Dashboard web applications.
- Understand business requirements to create future-proof features.
- Design and architect data model, logic model and routing table.
- Evaluate and select best-fit React JS component libraries.
- Build reusable React data grid and chart components.

- Build backend REST APIs using NestJS.
- Build unit tests with React Testing Library.
- Build automation tests with Cypress.
- Improve codebase with clean code methodologies.
- Apply agile methodologies such as kanban boards (Jira) and daily standups.

Lumiq, Frontend Software Engineer, May 2019 - Sep 2020

- Build Wealth Management and Admin web applications.
- Design and architect data model, logic model and routing table.
- Evaluate and select best-fit React JS component libraries.
- Build reusable React data grid and chart components.
- Integrate with backend REST APIs using Axios.
- Build unit tests with React Testing Library.
- Build automation tests with TestCafe.
- Improve codebase with clean code methodologies.
- Write comprehensive technical documentation.
- Mentor junior developers on JavaScript, React JS and Redux.
- Apply agile methodologies such as kanban boards (Jira) and daily standups.
- Optimize web application performance.
- Improve web application security.

Zenika, Consultant, Oct 2018 - Apr 2022

Training Lead

- Applied Citrep+ funding for React JS training.
- Analysis latest trends in technology landscape to roll out new training.
- Created structure training programs for Full-stack engineer, Business Intelligence analyst and Data engineer.

Curriculum Developer

- Designed training curriculum for Full Stack and Machine Learning Engineer.
- Updated React JS training material with React Hook and functional components.
- Curated learning resources for React JS.
- Translated JavaScript training material from French to English.

Training Instructor

- Delivered Data visualization, Software engineering, Database, Machine learning and Data warehouse courses for CACIB. Awarded an average evaluation grade of 4.5/5 for all training.
- Delivered React JS course for NetAssist. Awarded an average evaluation grade of 8/9 for all React JS training.

Esri Singapore, Web Developer, Technical Trainer, Course Developer, Apr 2016 – Sep 2018

Web Developer

- Developed Web Widgets with ArcGIS JavaScript and ArcGIS Server REST APIs.
- Developed, tested, modified, and deployed Web Widgets based on clients' specifications.
- Mentored junior developers on JavaScript, Python and Web Application Development.

Technical Trainer

- Setup training equipment and created 13 virtualbox virtual machines.
- Delivered Development, Geodata, Server, Web and App courses.

Course Developer

- Developed new training materials for 4 Apps and 2 Development courses.

- Updated courseware and curated content for 22 Geospatial Technology courses.

Avantus Training, IT Trainer, Course Developer, Apr 2015 – Apr 2016

- Delivered Courses on Excel VBA, PowerPoint, Word, Access, Outlook and Project.
- Developed courses on Spreadsheet, Database and Word Processing.

Genetic Computer School, IT Trainer (Freelance), Oct 2014 – Apr 2015

- Delivered ICDL WSQ Courses on Spreadsheet, Presentation, Image and Web Editing.

Solution Tree Learning Centre, Co-Founder, Oct 2013 – Sep 2014

- Created online marketing materials and videos, email campaigns and managed student recruitment.
- Set up and configured the video surveillance system, wireless network, laptops and Mac Mini.
- Taught primary and secondary Math and Science subjects.
- Prepared learning material for 'O' and 'N' Level subjects.

Institute of Technical Education, Lecturer / Information Technology, Jul 2005 – Sep 2013

- Developed projects at ITE-Sun Centre of Technology using J2EE, J2SE, J2ME, C# and Flash.
- Supervised students for student project development.
- Leading CCA Clubs included: Diorama / Polymer Clay Club, Media Smart Club and Sun COT Club.
- Taught networking, programming and multimedia and web development Modules.

Gemplus Technologies Asia Singapore, Software Engineer, Jun 2003 – Jun 2005

- Provided solutions for worldwide telecommunication operators.
- Customized telecom card (Native and Java) Operating Systems using C and Java programming language respectively in embedded software environment using Infineon and Raisonance emulator.
- Experienced in working with a team of developers and validators throughout all stages of the Project Development life cycle.
- Overseas project attachments to Gemplus France, Gemenos and Gemplus Canada, Quebec.

Education

- Bachelor of Engineering (Computer Engineering) Second Class Honours (Upper), Nanyang Technological University, 1999 - 2002
- Diploma in Electronics and Computer Engineering, Ngee Ann Polytechnic, 1993 - 1996
- GCE 'O' Level: 7 credits with 4 As and 3 Bs, Chung Cheng High School Branch, 1989 - 1992

Pedagogy Certifications

- WSQ Diploma In Adult And Continuing Education (DACE), Institute for Adult Learning Singapore, 2015 - 2016
- Pedagogical Certificate in Technical Education (PCTE), Institute of Technical Education, 2008 - 2009

Professional Certifications

- Free Code Camp
    - APIs and Microservices Developer Certification, 2018
    - JavaScript Algorithms and Data Structures Developer Certification, 2018

- PHP 7.1 Zend Certification, 2017
- Esri Certified Web Application Developer Associate 10.4, 2017
- CompTIA Certified Technical Trainer (CTT+) Classroom Trainer, 2017
- Microsoft Programming in HTML5 with JavaScript and CSS3, 2016
- Oracle Certified Professional, Java SE 7 Programmer, 2016
- C++ Institute

- - C Programming Language Certified Associate, 2016
  - C++ Certified Professional Programmer, 2016
  - C++ Certified Associate Programmer, 2016
- Microsoft Office Specialist 2013 Master, 2015

Awards

- 2013: ITE College East Certificate of Appreciation
- 2012: ITE Long Service Certificate
- 2010: Singapore Productivity Association Bronze and Silver Award
- 2006, 2007, 2008, 2009: Spring Singapore Silver Award
- 2006: ITE College East Commendation Award
- 2004: Gemplus Recognition Award

Languages

- Proficientin English
- Fluent in Chinese