

Chester Li

Agile (CSM) & knowledgeable web applications software engineer with a strong passion for both aviation and innovative design, working comfortably both front and back end language-agnostically (but front-end is cooler).

POSITIONS HELD

Software Engineer • Panasonic Avionics Corporation

Lake Forest, CA • Nov 2014 – present

MTS III, Software • Global Network Operations Engineering • Dec 2018 – present

- Develop and maintain web tools to provision and manage connected aircraft. Automate aircraft on-boarding with remote OTA software installation and content delivery services. Create tools to optimize satellite beam/antenna parameters.
- Build middleware APIs and microservices to have client applications securely authenticate and communicate with internal backend satellite network management systems. Ensure successful deployments to cloud platforms (AWS and GCP).
- Support remote command, control, and communications on connectivity services and inflight entertainment systems.

MTS I / MTS II, Software • Core Software Development • Nov 2014 – Dec 2018

- Increasing ownership to tech lead on inflight advertising management system for airlines and in-house agency services in excess of 50k flights per month. Oversaw growth in product in an engineering capacity scaling to over 5b impressions / yr.

Freelance Software Developer

Worldwide • Mar 2009 – present

- Volunteer with Hack for LA (Code for America) to provide LA Metro on-time statistics and visualizations (D3js) in the cloud. Continuous development of web-based flight simulation tracking software application, >70,000 simulated flights per month
- Developed multi-year rich web applications (full stack) with over 40k views per day peak performance.

Software Developer, Web • UCLA Libraries • Simul8 Group

Los Angeles, CA • Apr 2013 – Jun 2014

- Contributed to bookmarklet-based link saving bibliography generation web service for UCLA students.
- Designed and developed a full stack single sign-on secure web app to link current and future group projects under one login

Programmer Analyst • UCLA GSEIS • CRESST/CSE

Los Angeles, CA • Nov 2011 – Mar 2014

- Center webmaster working in a corporate Microsoft server environment, PHP, MySQLm and FileMaker RDBMS systems.

Engineering Intern • Cathay Pacific Airways • Fleet Induction

Hong Kong • Jul 2011 – Aug 2011

- Assist in the delivery of new aircraft from OEM up to entry-into-service, including airworthiness assessments and type certs.

SOFTWARE EXPERTISE

Web Development **Javascript:** ES6+, TypeScript, React, Angular, EmberJS, node • **PHP:** Symfony, Laravel
Databases: MySQL, SQLite, Elasticsearch, NoSQL • **Technologies:** AWS, CI/CD, GCP, MQTT, Redis

Data Science Python data science: numpy, pandas, sns • Machine learning

Languages & Techs Git/SVN/Hg • Python, C++, Go, R, MATLAB/Simulink, Tensorflow

Processes Agile (scrum & kanban), lean six sigma, mob + extreme programming, BDD/TDD

AWARDS & CERTIFICATIONS

Scrum Alliance Certified ScrumMaster (2019)

General Assembly Data Science (2018) • Downtown Los Angeles

U.S. FAA Private Pilot PPL (ASEL) • Medical 3rd class (exp. 10/2022)

Apple Certified Associate Mac Integration • macOS 10.7, 10.9

EDUCATION

University of California, Los Angeles

Los Angeles, CA • Jun 2014

B.S. Aerospace Engineering • B.S. Atmospheric, Oceanic & Environmental Sciences

Selected Coursework: systems engineering, engineering management, computer modeling and data analysis

Chinese International School • International Baccalaureate (IB) Diploma

Hong Kong • Jun 2009

U.S. ITAR/Export Control – I have acquired Canadian and British citizenship through naturalization, and Hong Kong (SAR) citizenship by birth.