# Yau Ka Cheung, Software Engineer

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## SUMMARY

Veteran Full Stack Developer well-versed in numerous programming tools and languages. Proficient in both backend and frontend development. Highly effective at working on any phase of development process. Hardworking professional with remarkable technical abilities developed servals years of experience.

## SKILLS

- Programming Languages: NodeJS, TypeScript, JavaScript(ES6), Python, C++, PHP, Java
- Website: Bootstrap, SemanticUI, AJAX, JSON, XML, CSS, JQUERY, WordPress
- Project Management
- Server: AWS, Linode, Debian, Ubuntu, Arch, LEMP
- Mobile Application: iOS Swift, Java, Kotlin, React Native
- Machine Learning: TensorFlow, Keras, CNN, Image Processing
- Firebase: Firestore
- Source and Version Control: Git, GitHub, GitLab, Bitbucket
- Databases: MySQL, MongoDB, PostgreSQL
- RDMS Development and SQL
- JS Frameworks: ReactJS, AngularJS, VueJS, HapiJS, ExpressJS
- API Design and Development
- SOAP and RESTful Web Services
- iOS Application Development
- Android Software Development
- Data Storage and Retrieval
- Chatbots: LLM, Naïve Bayes, NLP, Random Forest

## EXPERIENCE

Instructor, Texas A&M University-Commerce, August 2024 – Now
RELLIS - Bryan, TX

- Instructed CSCI 310 Cybersecurity, CSCI System Analysis and Design, CSCI 380 Web Programming and Interface, CSCI 422 Cloud Computing & Security, CSCI 430 Introduction to Operating Systems

Graduate Grader, Texas A&M University-Commerce, September 2023 – Now
Commerce, TX

- Works collaboratively with the teacher of record for a Master's level course(s)
- Grades assignments based upon the guidelines and rubrics for Department of Computer Science
- Inputs assignment grades into the learning management system for the assigned course(s)
- Communicates on a regular basis with the teacher of record
- Instructed CSCI 595 Research Literature and Techniques, CSCI 563 Information Security, CSCI 554 Digital Forensics, CSCI 538 Artificial Intelligence, CSCI 573 Big Data Computing & Analytic

Senior Web Developer, Silver Linens Jewelry, August 2022 – September 2023
Quinlan, TX

- Led a team in the development of JavaScript-based single-page applications and frameworks, ensuring alignment with design specifications.
- Applied expertise in markup and styling languages (HTML, CSS, SCSS) to harmonize design direction seamlessly.
- Orchestrated the entire web development lifecycle, encompassing design conceptualization, development, and deployment phases.
- Successfully managed back-end services, including interfacing with APIs to enhance overall functionality.
- Implemented effective source control using Git, contributing to streamlined collaboration and version management.
- Spearheaded the creation of online shopping functions, enhancing the user experience and driving e-commerce capabilities.
- Integrated various payment gateways to facilitate seamless and secure transactions.
- Demonstrated adeptness in managing and maintaining the website and server, ensuring optimal performance and reliability.

Full Stack Developer, Cloudinfra IT, January 2022 – December 2022
Farmers Branch, TX

- Engineered a robust online store system featuring seamless add-to-cart and checkout functionalities.
- Crafted a responsive UI and optimized frontend UX for enhanced user interaction.
- Developed iOS (Swift) and Android applications using ReactJS and React Native, ensuring cross-platform efficiency.
- Designed RESTful web services and APIs, utilizing JSON for effective data exchange.
- Implemented and maintained web and API servers in Nginx, MySQL, and NodeJS, incorporating load balancing, caching, session management, and asynchronous processes.
- Integrated Apple Pay and Stripe payment systems into both websites and mobile applications, enhancing transaction capabilities.
- Took charge of both backend and frontend development aspects, ensuring a cohesive and efficient development process.
- Modified existing software systems to improve performance and introduce new features, demonstrating adaptability.
- Conducted thorough code debugging, prioritizing and implementing fixes to address issues promptly.
- Upheld coding standards, prioritizing system performance, reliability, and actively participating in code reviews.
- Coordinated system installations, testing procedures, and implemented code corrections to ensure a smooth deployment process.

- Contributed to the development of application architecture, leveraging expertise in system design and optimization.
- Troubleshooted, tested, and remedied issues during software deployment, ensuring a seamless user experience.

Junior Full Stack Developer, Letusbake LLC, May 2021 – November 2021
Plano, TX
- Architected system and website infrastructure on AWS, leveraging Ubuntu, MySQL, PHP, and PhpMyAdmin.
- Orchestrated the development of both frontend and backend components of the website, focusing on designing seamless user interactions.
- Engineered iOS and Android applications utilizing React Native for a unified cross-platform experience.
- Established an API server using NodeJS and ExpressJS, integrating a MongoDB database for efficient data management.
- Assumed a leadership role in guiding teammates through system installations, testing processes, and debugging activities.
- Programmed applications and tools using object-oriented languages, emphasizing code abstraction, stability, and reuse as key objectives.

Software Developer, Texas A&M University-Commerce, June 2020 – April 2021
Commerce, TX
- Worked in Mete Bioinformatics Lab about "Human Activity Classification with Generative Adversarial Network by Deep Learning"

Graduate Assistant-Teaching, Texas A&M University-Commerce, Aug 2018 – May 2020
Commerce, TX

- Appointed as an instructor for a range of courses, including Python, iOS App Development, Java, PHP, C++, and Database.
- Served as a liaison between professors and students, facilitating communication on subject matter, assignments, and class expectations.
- Conducted research focused on autonomous vehicles object detection, contributing to advancements in the field.

Software Developer, Invisible Fun Studio, November 2015 – May 2020
Hong Kong; Team Lead Experience 2 years

- Engineered an electricity metering system using NodeJS, VueJS, and Python, demonstrating proficiency in diverse technologies.
- Developed a website employing ReactJS and NodeJS API servers, ensuring comprehensive testing of new services.
- Designed LoRa devices using Python and created an IoT Control Interface using ReactJS for seamless device management.

- Implemented a solution for the Hong Kong Observatory Supersite, involving the development of websites, gateways, and the integration of data in Azure applications.
- Established a size advising system and data entry platform using ReactJS, showcasing versatility in frontend development.
- Engineered a product fetching program utilizing NodeJS and Python, streamlining data retrieval processes.
- Developed iOS and Android applications using C# and Java, complemented by an API server using HapiJS and a MySQL database.
- Created RESTful micro-services with ExpressJS, contributing to a modular and scalable architecture.
- Leveraged Amazon's AWS Cloud services for hosting assets and projects, ensuring efficient utilization of cloud resources.
- Modified existing software systems to optimize performance and introduce new features, showcasing adaptability and problem-solving skills.
- Developed websites using WordPress and implemented custom plugin functions with PHP for enhanced functionality.
- Designed Python scripts for Raspberry Pi, addressing various project tasks and demonstrating proficiency in embedded systems.
- Designed business-level network infrastructure and surveillance systems, contributing to robust and secure operations.
- Implemented mobile applications using Objective-C and Java, showcasing expertise in native app development for iOS and Android platforms.

**EDUCATION**
Master of Science in Computer Science
Texas A&M University-Commerce, Commerce, Texas, May 2020

Bachelor of Science in Computer Science
The Hong Kong Polytechnic University, Hong Kong, August 2016
(#100 in Best Global Universities, #34 in Computer Science)

**LANGUAGES**
Chinese (Cantonese): Native                    English: Full Professional
Chinese (Mandarin): Full Professional

**ACTIVITIES AND HONORS**
- Web Administrator and IT Support, Lions for Christ (Church of Christ), Commerce TX (2021-2023)
- Received patent, "Autonomous Vehicle Communication in V2X Network with LoRa Protocol" TX8886696 (July 2020)
- Participated SmartCom 2019, "Autonomous Vehicle Communication in V2X Network with LoRa Protocol" (October 2019)

- Published in the book "Smart computing and Communication", "Autonomous Vehicle Communication in V2X Network with LoRa Protocol" (October 2019)
- Participated 15th Pathways Research Symposium, "Refining Deep Learning Algorithms for Skin Cancer Detection" (Dec 2018)
- Received Scholarship, "Alton & Wynell Goddard Scholarship" (December 2018)
- President, TAMUC Chinese Student Association (May 2018 – December 2019)
- Awardee, Hong Kong Cyberport Incubation Programme (2017)
- Awardee, Hong Kong Polytechnic University Micro Fund (2017)
- Awardee, Hong Kong Cyberport Creative Micro Fund (2016)