

CHUN-HAO HUANG (JACK HUANG)

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A highly motivated and passionate software engineer from Carnegie Mellon University, offering 2 years of experience in the full-stack development life-cycle – from concept through delivery of state of the art applications to real-world challenges.

Education

Carnegie Mellon University M.S. Software Engineering (GPA: undetermined)	Sept. 2021 – Exp. Dec. 2022 Mountain View, CA
National Cheng Kung University B.S. Computer Science and Information Engineering (GPA: 3.98/4.30) <i>Selected Coursework: Programming Languages (A+), Advanced Software Engineering (A+), Algorithms (A+), Network Management (A+), Advanced Competitive Programming (A), Data Structure (A), Compiler Construction (A).</i>	Sept. 2016 – June 2020 Tainan, Taiwan

Work Experience

Co-founder & Full-stack Engineer Vue.js, Cordova, AWS, Docker, GitLab CI/CD <i>CityChaser (A creative consultant focusing on the network technology and cloud applications)</i>	Nov. 2019 – Present Taipei, Taiwan
<ul style="list-style-type: none">Shortlisted in U-Start Innovation and Entrepreneurship Program 2020 by Youth Development Administration, Ministry of Education in Taiwan (75 out of 500+ applications).Shortened app development cycle by proposing and integrating Apache Cordova into project to build a one-codebase hybrid mobile app (Android & iOS).Boosted map render/update frame rate by 200% by building Cordova native plugin with Mapbox SDK.Avoided excessive load to API server by implementing truncated exponential backoff using Axios interceptors.Introduced DevOps pipelines using GitLab CI/CD and Docker for Android automatic deployment in semantic versioning and thus successfully shortened deployment cycle time by 50%.Led 10-person cross-functional team as a Scrum master coordinating Sprint Planning, Daily Stand-ups, Sprint retrospectives, Sprint Demos, and Release Planning resulting in on-time delivery rate of 95%.Designed and built core for games including collecting resources, mining, offline countdown timer, etc.Constructed several back-end APIs for collect resource system, email system using Express.js, DynamoDB, AWS Lambda.	
Web Development Intern JQuery, Django, PostgreSQL, Apache, Kerberos <i>IT Department, FarEasTone Telecom (The 2nd largest telecom operator in Taiwan)</i>	July 2019 – Aug. 2019 New Taipei, Taiwan
<ul style="list-style-type: none">Developed responsive web UI adopting Responsive Web Design to enrich mobile and desktop browsing experience.Automated monthly KPI reports generating process, reducing HR daily workload by 13%.Guided 3-person team and completed a project 2 weeks earlier, writing a 13-page handover note.Proposed AAA (Authentication, Authorization, and Accounting) secure transport protocol using Kerberos and Microsoft Active Directory for identity validation of non-secure network communication.	

Selected Projects

- Online Judge and Game Integrated System** | Vue.js, Vuetify, Express.js, Redis, MongoDB, Firejail, Nginx
Built an online judge system and content manage system for coding problem management, evaluating 200+ students' performance in Program Design (I) course in 2020 at National Cheng Kung University.
- ATG.io** | Vue.js, Element-UI, GIN, LevelDB, Redis, Konva, pako, Docker, Kubernetes, GCP, PyTorch
Trained a bot agent using both **Deep Q-network in reinforcement learning paradigm** and real-time training with users' logic using C++. Also developed a real-time web-based platform that allows users to upload C++ code and to run simulations.
- HackMDir** | React.js, Redux, Webpack, Babel, Material-UI, ESLint, Google Chrome API
Wrote a chrome extension for HackMD users to manage notes with directory categorization, which earned me not only a recognition from CTO but also an **internship offer**.
- Virtual Backing System** | Vue.js, Element-UI, ECharts, Express.js, Apollo GraphQL, MySQL, Sequelize, Firebase
Developed a web-based system for bank clerks to automatically generate customers' saving insurance profiles. Also built a front-end page for technical assistants to run database queries.

Achievements

- 2nd prize** in 2019 MeiChu Hackathon. (out of 34 teams).
- 3rd prize** in Mobile Game Development track of 2020 Vision Get Wild Award. (out of 53 teams).
- FutureTech Breakthrough Award** in 2020 FUTEX exhibition. (71 out of 600+ applications).

Technical Skills

Programming/Scripting Languages: (Proficient) JavaScript, Python, (Experienced) C/C++, Java, ShellScript, Golang.
Tools/Frameworks: Qt, Vue.js, React.js, Django, Express.js, MongoDB, GraphQL, Git, PyTorch, Docker, Kubernetes.
Clouds: Heroku, Firebase, Amazon Web Services, Google Cloud Platform.