David Hua

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About Me

I am a computer science student from UBC. I am passionate about leveraging my skills in Web Development, Mobile Application Development, and UI/UX Design to create engaging and functional digital experiences. With a strong foundation in Software Engineering, I am adept at building scalable and efficient solutions that meet diverse business needs. Committed to continuous professional development, I aim to blend cutting-edge technology with practical applications to solve real-world challenges, ensuring I am always ready to contribute effectively to my team and adapt to the dynamic tech industry.

Education

Chinese University of Hong Kong, Shenzhen, BE in Computer Engineering — June 2023 - August 2024
- GPA: 3.7/4.0

University of British Columbia, BS in Computer Science — August 2024 - Present
- GPA: 4.33/4.33 (91.4/100)

Experience

QA Intern, GHz Technology Ltd. — May 2025 – June 2025
- Conducted independent end-to-end testing of a hospital mobile application, covering full UI functionality prior to internal release.
- Designed and maintained 100+ structured test cases; identified 21 bugs and 4 usability issues, including 4 missed by the internal QA engineer.
- Collaborated with QA and developers to triage, report, and verify fixes using internal tracking tools.
- Supported UI design iteration in early stage of internship by adapting layouts based on evolving client requirements using Figma.

Undergraduate Research Assistant, CUHK(SZ) — January 2024 – July 2024
- Developed and implemented a web crawler to automatically retrieve ESG reports from corporate websites, enhancing data acquisition efficiency.
- Converted PDF documents into text, increasing data accuracy and reliability.
- Employed advanced large language models to extract critical information from text, streamlining the data processing workflow.
- Created well-designed prompt, significantly reducing the incidence of hallucinated or inaccurate data by 4%, bolstering the integrity of research outcomes.

Finance Officer, CUHK(SZ) IEEE Student Branch — August 2023 – July 2024
- Established financial oversight system for a 200+ member IEEE branch, managing reimbursements, student funding requests, and compliance with university policies.
- Initiated and managed a reimbursement project for IEEE membership fees, funded by the School of Science and Engineering, to boost student membership in the global IEEE community.

Projects

UBC Course Visual Planner — View the project on GitHub
- Developed a course-visualizing and planning tool designed to assist students in planning their academic schedules and exploring future courses.
- Ensured accessibility by deploying the tool across multiple platforms, including a dedicated website and a PC application.
- Tools Used: JAVA, HTML/CSS, JavaScript

Identifier System to Enhance ASCII Art Recognition in LLMs   View the project on GitHub
- Designed a lightweight content-moderation tool integrating LLM and VLM models to detect offensive ASCII art.
- Improved recognition accuracy from 12% → 81% and reduced hallucination from 88% → 14% through image-based rerouting.
- Implemented reproducible experiments and statistical validation (t-test, bootstrap) in Python.
- Tools Used: Python (JupyterNotebook)

UBC MineCraft Player Engagement Analysis   View the project on GitHub
- Analyzed player behavior on a UBC-hosted Minecraft server using player and session data to identify which types of players contribute the most data, aiding targeted recruitment for future research.
- Tools Used: Python (JupyterNotebook)

Skills

Technical Skills
- **Programming Languages:** Python (Pandas, Scikit-learn, TensorFlow, PyTorch, NumPy), Java, C, C++, JavaScript/TypeScript, R
- **Testing:** Test case design, regression testing, bug tracking, defect triage, Testing & QA Documentation
- **Data & Automation:** Data Cleaning, ETL Pipelines, Web Crawling, PDF/Text Extraction, Prompt Engineering
- **Design Tools:** Figma, UI mockup adaptation, client-driven iteration
- **Software Engineering:** Git/GitHub, Docker, VSCode, UML-based Architecture Design
- **Web Development:** HTML, CSS, JavaScript

Language
- **English (Advanced)**
- **Manderin (Proficient/Native)**
- **Shanghainese (Advanced)**