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Haitong Chen

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EDUCATION

University of Michigan M.S. Computer Science *Aug 2023 - May 2025 (expected)*

- Major Courses: HCI, Natural Language Processing, Machine Learning, Artificial Intelligence, Advanced Compilers, Programming Language
- GHC #23 attendee

University of California, San Diego B.S. Computer Science *Sep 2021 - Jun 2023*

- Major Courses: Software Engineering, Deep Learning, Computational Linguistics, Social Computing, Web Client Language, Data Structures, AI: Search and Reasoning, Operating Systems, Design and Analysis of Algorithms, Statistic Methods
- DEI and Leadership Experience: Team Lead and Secretary at [Women in Computing](#)

RESEARCH EXPERIENCE

Sun Yat-Sen University *Guangdong, China*
Research Assistant Apr 2023 - Sep 2023

- Improved the accuracy of using LLM (GPT - 4) to summarize Yelp review texts to 97%.
- Increased the number of business options to 195.6x to support an AI powered Slack bot.
- Reorganized scattered information from Yelp business dataset based on relevance using Python and Linux.
- Accepted as Late Breaking Work by CHICHI23.

Arthur C. Clarke Center *San Diego, CA*
AR/XR Developer Intern Jan 2022 - Jun 2022

- Added 5 interaction options to the browser widget by Blueprint visual programming in Unreal Engine.
- Increased color vibrancy to the power of 2.9, reduced latency by 12% to the browser widget.

WORK EXPERIENCE

Amazon *Bellevue, WA*
Software Development Engineer Intern Jun 2024 - Sep 2024

- TBD

University of California, San Diego *San Diego, CA*
Computer Science Instructional Assistant Sep 2022 - Jun 2023

- Collaborate closely with professors and TAs as a tutor for CSE 15L: Software Tools and Techniques.
- Lead weekly labs on using software tools, form discussions and help 6 groups of 8 students.
- Attend lectures, answer students' questions, and help plan lecture contents accordingly.

Amazon Web Services *Dallas, TX*
Technical Account Manager Intern Jun 2022 - Aug 2022

- Cut down cost by optimizing the storage plan for 1000+ GB files on [AWS S3](#).
- Automated file upload, transfer of storage plans by writing [Python](#) scripts in [Lambda](#).
- Speeded up and automated querying by deploying [SQL](#) scripts in [Redshift](#) through [CloudFormation](#).

PROJECTS

PlotPatch ([link](#) to Github repository) *Mar 2024 - May 2024*

- Built the entire web application using HTML, CSS, and Javascript.
- Queried Gemini API (Google AI) for single and multi-turn content generation, summarization, and QA.

Cactobot ([link](#) to Github repository) *Apr 2023 - Jun 2023*

- Implemented 80% of the UI and 70% backend functionalities of the app with the [Tkinter](#) library in [Python](#).
- Sent 10+ color signals with less than 5ms latency by connecting [Raspberry Pi](#) with RGB LED outputs.

PlanPal ([link](#) to portfolio) *Jan 2023 - Mar 2023*

- Designed and prototyped a social computing application PlanPal that encourages socializing by easing decision making processes and giving recommendations based on users' preferences.
- Wrote tasks and scripts for user tests, moderated prototypes, analyzed data, and set priorities for sprints.
- Developed multiple iterations of interactive prototypes using Voiceflow chatbot agent.

ZooSeeker ([link](#) to Github repository) *Apr 2022 - Jun 2022*

- Implemented 5/8 UI screens and 4/10 features of the application with [Java](#) in [Android Studio](#).
- Ensured the usability and correctness by designing 5 tests, enhanced version protections through [Git CI/CD](#).
- Shorten the project timeline by 1 sprint by carrying out [Agile](#) development in project management.

Little Chief *Jan 2022 - Mar 2022*

- Organized meetings and assigned tasks to team members as a team lead.
- Wrote [React](#) scripts for [REST APIs](#) to build the framework and implement detailed I/O and interactions.
- Wrote [CSS](#) and [HTML](#) scripts to implement responsive hi-fi mobile and web pages designed in [Figma](#).

TradeBot *Jun 2021*

- Wrote [Python](#) scripts on [Jupyter Notebook](#) to implement web [APIs](#) from different trading platforms to monitor real-time tradebook data.
- Filled 1 successful transaction per 10 minutes and made 10% gross benefit on average.

SKILLS

- **Programming Languages:** Python, Java, C++, Javascript, HTML, CSS, C, MATLAB, R, Octave
- **Technologies:** Linux/Unix, Git, Zenhub, vim, JDB, AWS, MySQL, Jupyter Notebook, Agile Development
- **Certificates:** Google UX Certificate, Natural Language Processing with Classification and Vector Space, Machine Learning, Using Databases with Python, AWS Certified Cloud Practitioner