Ray Gong

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TECHNICAL SKILLS

Languages: Javascript, Typescript, Python, Java, HTML/CSS, C++, Lisp, SQL
Frameworks: React, Svelte, Django, Flask, Flutter, Qt, GraphQL
Tools: AWS, Google Cloud, Firebase, Heroku, Git, Docker, Unity, Android Studio

EDUCATION

University of Alberta   Edmonton, Alberta, Canada
Honors Bachelor of Science in Computer Science   *September 2019 - May 2024*

WORK EXPERIENCE

Software Developer Intern   May 2022 – January 2023
Interface Fluidics   *Edmonton, Alberta*
- Developed a full-stack desktop application for automated image and data analysis, utilizing PyQt to build GUI
- Created automated tools for image and statistical analysis, leveraging libraries such as OpenCV and SciPy
- Revamped the data processing pipeline to incorporate type safety and implemented asynchronous task system
- Implemented Python-based automation for database management and data entry, utilizing GraphQL to communicate with backend
- Enhanced user efficiency by redesigning legacy workflows and optimizing the user interface
- Engaged with customers and end-users to gather feedback, enhancing software quality
- Utilized Jira for efficient project management and BitBucket for robust version control

HACKATHONS

Watchdog | *SvelteKit, OpenAI GPT API, Chrome* | Stormhacks 2023   March 2023
- Achieved 2nd Place and Best Design awards at Stormhacks 2023, hosted by Simon Fraser University
- Developed a full-stack SvelteKit web app that detects online scams and frauds through irregularity recognition
- Applied a range of prompting techiques to fine-tune the GPT model to accurately identify scams
- Developed a Chrome extension featuring an interactive user interface and seamless animations using Svelte

Toneteller | *React, Flask, Google Cloud, Chrome, Docker, Machine Learning* | HackED 2023   January 2023
- Achieved 2nd place at HackED 2023, hosted by University of Alberta
- Built a full-stack React web application that uses sentiment analysis AI to detect emotions of written text
- Developed a Chrome extension utilizing the Chrome Extension API to display sentiment analysis results
- Deployed a Python Flask server as a Docker container hosted on Google Cloud Run
- Integrated the RoBERTa sentiment analysis model into a Flask server, to processes requests sent from client
- Received over 250 unique visitors and 2,000 API calls within first week of release

PROJECTS

ScreenCap | *Python, PyQt, Tkinter, Nuitka, Win32 API*   January 2021
- Developed a cross-platform desktop application using PyQt, incorporating native API of Windows and Linux
- Implemented utilities classes to register global hotkeys and handle user configuration
- Designed GUI for an efficiency-focused workflow by implementing rebindable hotkeys for a variety actions

Experimenter | *Java, Android, Firebase, Google Maps API, QR Code*   January - April 2021
- Utilized UML diagrams, user stories, and product backlogs to perform software design and project management
- Developed data visualization tools to effectively present summarized statistics through line and bar graphs
- Integrated Google Maps into the application to enable an interactive map for with custom markers of user data
- Connected frontend client with Firebase to handle functions such as user identification and data querying
- Designed an efficient Firebase document structure to optimize data retrieval and minimize network traffic
- Implemented data collection functionality by generating and scanning barcodes and QR codes