Henry Kim

Computer Science Major | Year 3
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TECHNICAL SKILLS

Languages: Java | C/C++ | HTML | CSS | JavaScript | TypeScript | React | Node | Express | PHP | *Python
Tools/Environment: Git/GitHub | IntelliJ | Visual Studio Code | MySQL
Testing: JUnit | GDB | TDD | Mocha | Chai   * (currently acquiring)

TECHNICAL PERSONAL PROJECTS

Space Shooter Game   *04.2023*
- Built a fully interactive space invader shooter game in Python
- Utilized the PyGame library for developing a multimedia application for the gaming interface
- Implemented a simple control system, scoreboard, and screen effects to boost user experience
- <u>Technologies</u>: Python, PyGame

Food For Thought   *03.2023*
- Designed a web application using React.js to allow users to find new cooking recipes by searching specific foods
- Utilized a recipe-food-nutrition RESTful API to request and deploy recipe data onto the screen
- Implemented a parallax effect to enhance the user's 3D depth perception while scrolling through the application
- <u>Technologies</u>: React.js, Node.js, API, React Bootstrap

Counter App   *08.2022*
- Developed a simple counter application using Java to allow users to keep count of values
- Utilized JSON to allow for saving/loading of count to maintain persistence within application
- Implemented a graphical user interface using Swing to allow users to apply functionality to the app
- <u>Technologies:</u> Java, Swing, JUnit, JSON

TECHNICAL EXTRACURRICULAR ACTIVITIES

UBC StudySpot   *01.2023*
NwHacks 2023: Western Canada's largest hackathon
- Developed a full stack website using React.js to allow students to browse and create reviews for study spots within UBC
- Constructed a NoSQL database using MongoDB Atlas to store and maintain information for study spots and their reviews
- Implemented a backend on Node.js which utilized a server to process and deploy requested information to web users onto the frontend
- Designed a fully functional frontend using React Bootstrap which include features such as search bar with suggestions, addition of reviews, and rating system
- <u>Technologies</u>: React.js, React Bootstrap, Node.js, Express. js, MongoDB, NoSQL

Around The World   *11.2022*
HackCamp 2022: Western Canada's largest beginner-friendly hackathon

- Developed a web application with React.js that allows users to explore new locations of the world and plan possible airline flights to those locations
- Utilized a flight data API to request and retrieve information that would be displayed on the interface
- Implemented a system that generated random locations to increase variety within the application
- Technologies: React.js, Node.js, API

TECHNICAL ACADEMIC PROJECTS

InsightUBC *01-04.2023*
- Developed a full stack website using TypeScript and React.js to query files containing course and room information within UBC
- Utilized JSZip and parse5 to access files and parse data to recover wanted information
- Implemented a RESTful server to query parsed information based on user inputs and deploys desired data to the user
- Executed Test Driven Design for both black box and glass box testing using Mocha and Chai to develop a strong test suite
- Incorporated ESLint linter and Agile process with a partner for a cohesive and effective approach to project delivery
- Technologies: TypeScript, Node.js, REST, React.js, TDD, Mocha, Chai, ESLint

Hotel Database Management System *04.2023*
- Designed a hotel DBMS using PHP to manage all hotel properties and query hotel information based on user inputs
- Used SQL to implement multiple database tables and queries for filtering hotel data
- Managed hotel data within Oracle database and utilized API requests to deploy and update data
- Technologies: PHP, SQL, Oracle

JavaFit *08.2022*
- Built an application using Java that allows users to record workouts, set new fitness goals, and track macros to aid in health and fitness
- Utilized JSON persistence to load/save data for workouts, goals, and macros
- Implemented a complex graphical user interface using Swing to allow users to operate the application
- Technologies: Java, Swing, JUnit, JSON

OTHER EXPERIENCE

Instructor, PedalHeads – Como Lake, BC *07-08.2021*
- Guided children on how to ride bikes properly and safely
- Managed groups of 5-12 campers and established a strong leadership role
- Collaborated and communicated with other instructors for effective teaching strategies

Team Leader, Move 4 Mana – Port Coquitlam, BC *10.2019-06.2020*
- Took initiative in organizing and preparing all activities to promote and boost point system to save children suffering from acute malnutrition in underdeveloped countries
- Managed activities, participants, and equipment during a fast-paced environment
- Lead and worked with a team when leading activities to raise communication and time management

Volunteer, SFU Summer Camps – Burnaby, BC *07-08.2019*
- Taught children basic programs and skills on the computer to stimulate critical thinking
- Developed leadership roles in class lessons and supported campers one-on-one
- Reinforced problem solving abilities when encountering issues between campers

EDUCATION

University of British Columbia *Expected graduation 05.2025*
Bachelor of Science • Computer Science Major (CS)