Amy Chen

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SKILLS

Language	Knowledge/Framework	Other
Back-end : Java, NodeJS, Electron **Front-end :** Javascript, Typescript, React, Vue, Svelte **Database :** SQL, SQLite, MongoDB	**Webdev:** Bootstrap, Tailwind, MUI, APIs **Courses** : Object Oriented Programming, Algorithms, Data Structures	**Deploy :** Netlify, Github, Heroku, Render **General :** Git, Figma, Postman **Testing** : Mockito, JUnit, Chai

PROJECTS

Vibesphere *[MongoDB, Express, React, Node, Spotify API, Material-UI]*　　　　　　　　　　　　　　　Aug 2023
- Created MongoDB database schema for data persistence of user actions, and external Spotify API data
- Configured Auth0 to work with minimal user interactions through silent token management
- Deployed front-end, back-end, and machine learning Flask server on Render, accommodating new environment variables

UBC Course Explorer *[Typescript, Express, Svelte]*　　　　　　　　　　　　　　　　　　　　　　　Apr 2023
- Developed backend Mocha/Chai test suite using blackbox testing, leading to test-driven development
- Modelled user input into data structures, with EBNF grammar and asynchrony to ensure correct data transfer
- Created web server with REST API endpoints and a front-end to fulfill user stories and definitions of done

Video Game Database *[Java, Swing, Oracle DB, JDBC]*　　　　　　　　　　　　　　　　　　　　　　Apr 2023
- Protected database from malicious user inputs and SQL injections by parameterizing user inputs
- Engineered the entire Java backend to run CRUD and complex SQL-related queries through an Oracle database
- Planned Entity-Relationship diagrams to ensure data normalization and reducing redundancies

WORK EXPERIENCE

Article – Full Stack Engineer Co-op　　　　　　　　　　　　　　　　　　　　　　　　May 2022 – Aug 2022
- Investigated concerns from internal teams and solved bugs during unexpected production behaviour, auditing AWS Cloudwatch logs and production database to improve Java Spring backend
- Designed JUnit and Mockito tests to ensure the backend logic has increased automated coverage
- Changed API endpoints and Kafka topics, and added visibility accordingly on Vue frontend
- Tested behaviour of endpoints using Postman, queried production SQL database to audit behaviour of data
- Created documentation regarding internal technology architecture, microservices, and M1-chip dev setup issues

Royal Bank of Canada (RBC) – Software Developer Co-op　　　　　　　　　　　　　　Sep 2021 – April 2022
- Created a multi-Folder Cloud Backup feature with a loading bar, and a Web Browser Cache deletion feature through Powershell scripting with a React frontend
- Integrated an SQLite database into a Java desktop application to centralize collection of app usage data analytics
- Implemented features and bug fixes on Windows (Java, C#, Powershell), and transferred functionality to a new web app port (React, Node, Electron, JS)
- Emphasized an overall need for maintainable code, consolidated repetitive CSS and hardcoded translations

Hootsuite Inc – Accounts Payable Specialist　　　　　　　　　　　　　　　　　　　　Feb 2019 – Aug 2020
- Programmed Netsuite scripts for payment confirmations, significantly strengthening external relations
- Automated 30 credit card reconciliations via scripting, and designed Zendesk macros improving efficiency by up to 90%
- Established an internal website and created process documentation, delivered training to management and peers

EDUCATION

University of British Columbia, Bachelor of Computer Science, 4th Year　　　　　Sep 2020 – Dec 2023 (Expected)
University of Victoria, Bachelor of Commerce (Dean's List); 8x scholarships　　　　　　　　Sep 2014 – Dec 2018

VOLUNTEER EXPERIENCE

Bachelor of Computer Science Student Association - Treasurer & BCS Hackathon 2021 Organizer　　Jan 2021 – Dec 2021
Canada Revenue Agency, CVITP UVic (Free Tax Clinics) - Director of Marketing　　　　　　　Jan 2018 – May 2018
German Red Cross - Refugee Camp Engagement　　　　　　　　　　　　　　　　　　　　Oct 2017 – Dec 2017