Janet Li

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Highly motivated and passionate software engineer with experience in full-stack web development, data visualisation and bioinformatics.

SKILLS

- Python
- JavaScript/TypeScript
- React/Next.js
- Express.js
- HTML
- CSS/SCSS
- PostgreSQL
- R
- Git

EXPERIENCE

Deep Genomics

Software Engineer (remote)   July 2022 - Sept. 2022

- Delivered a new service consisting of accessible user interfaces and data visualisations for an internal discovery platform using React, Typescript, MaterialUI and FastAPI
- Supported the upgrade of an internal platform by developing core infrastructure in React and TypeScript, as well as a comprehensive e2e test suite using Cypress
- Collaborated with product managers and scientists to assess user needs and design and validate features to improve the speed and productivity of the target curation process

Canada's Michael Smith Genome Sciences Centre

Bioinformatics Research Assistant   Sept. 2019 - Apr. 2020

- Extended the open-source bioinformatics software tool Tigmint (Python, GNU Make) to take long sequencing reads as input for identifying and correcting misassembled contigs in genome assemblies
- Implemented a continuous integration pipeline with Azure Pipelines and Github Actions to run integration tests and enforce code styling

EDUCATION

MSc. Bioinformatics

University of British Columbia   Sept. 2020 - June 2022

- Developed robust bioinformatics applications in Python for genome assembly correction and comparative genomics data analysis
- Courses: Information Visualisation, Applied Machine Learning, Statistical Methods for High Dimensional Biology, Exploratory Data Analysis
- Awarded the British Columbia Graduate Scholarship consecutively for the Sept. 2020 - Aug. 2021 and Sept. 2021 - Aug. 2022 academic years

BSc. Applied Biology

University of British Columbia   Sept. 2015 - Apr. 2020

- Awarded the F. E. Buck Prize for the Sept. 2019 - Apr. 2020 academic year and the Gordon Robert Smith Scholarship for the Sept. 2018 - Apr. 2019 academic year

PERSONAL PROJECTS

Biru (source code) (demo)   Sept. 2021 - Dec. 2021

- Designed and implemented a responsive and accessible user interface using Next.js and SCSS
- Developed a RESTful API using Express.js, persisting data in a PostgreSQL database with the Sequelize ORM, including a session-based authentication system with express-session and Passport.js
- Integrated Cloudinary for managing image uploads and storage

Vibe Check (source code) (demo)   May 2021 - June 2021

- Designed and developed a responsive user interface using Next.js and SCSS that allows users to log in with their Spotify accounts and determine their mood using their listening history
- Implemented an Express.js server to authorise users and fetch and analyse their listening data using Spotify's OAuth2.0 framework and Web API