# JOEY SHI

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## **TECHNICAL SKILLS**

**Languages**: Golang · Scala · Java · Python · TypeScript · JavaScript · HTML5 · CSS3 · C/C++ · SQL **Frameworks/Libraries**: Angular · React · Node.js · D3.js · Flask · Pandas · PyTest · Javalin · ScalaTest **Tools/Technologies**: Visual Studio · PowerShell · Azure · AWS · Arch Linux · Neovim · Zsh · tmux · Git · Docker

#### **EXPERIENCE**

Visier Inc. April 2023 - Present

Software Developer II

Vancouver, BC

- Worked as an independent contributor for both the Data Connectors and Data Workflows teams.
- Implemented dataflow visualization libraries and UI components in Angular to simplify data load configuration.
- Developed essential data onboarding tools that addressed customer needs, directly enabling contract renewal.
- · Maintained and monitored critical AWS cloud functions to ensure high availability and reliability.

# **University of British Columbia**

Jul 2020 - Apr 2023

Vancouver, BC

- Led tutorials for multiple sections of the computer networking course: CPSC 317.
- Designed PrarieLearn exam questions for CPSC 317.
- Acommodated 120 first-year students in calculus tutorial sessions.

Vital Mechanics Research May 2022 – Oct 2022

Software Developer

Teaching Assistant

Vancouver, BC

- Researched topics in geometry processing and CAD software for 3D clothing simulation.
- Developed a pipeline for extracting garment geometry and stitch information from 3D file formats.
- Implemented mathematical optimization algorithms to infer information about garment stitching.

#### **PROJECTS**

#### **PC Builder Website** | Java · Angular · SQL · Docker

Nov 2023 - Present

- Implemented a full-stack web application for browsing PC builds and picking PC components.
- Designed an SQL database schema and REST API to support a variety of CRUD operations.
- Wrote build scripts and docker-compose files to streamline the deployment process.
- Setup hosting for the application on a Linux server running Nginx at home.

#### **Multiplayer Browser Platformer** | *TypeScript · Node · Socket.IO*

Dec 2021 - Present

- Built a real-time multiplayer browser platformer using the Canvas 2D rendering context API.
- Designed a backend web socket API to update and broadcast player data across multiple clients.
- Implemented player movement scripts, sprite animation, game physics, map rendering, and collision logic.

## **Differential Equation Solver** | Python · Matplotlib · Tkinter

Dec 2019 - Present

- Implemented efficient finite difference algorithms to solve ordinary and partial differential equations.
- Designed a graphical user interface in Tkinter and added animated plots for visualizing the generated solutions.
- Built a CI/CD pipeline with PyTest, Tox, and Github Actions.
- Published the application on the Python Package Index.

## **EDUCATION**

# **University of British Columbia**

Sep 2018 - May 2023

Vancouver, BC

Cumulative GPA: 91%

• Dean's Honour List (2018 – 2021); Science Scholar (2019)

Bachelor of Science | Combined Major in Computer Science and Math

#### **SCHOLARSHIPS**

#### Stanley M. Grant Scholarship in Mathematics

Jan 2021

**Charles and Jane Banks Scholarship** 

**Sep 2020** 

**Trek Excellence Scholarship** 

**Aug 2020**