Joey Parker

Personal Data

EMAIL:	joeyparker47@gmail.com
PHONE:	604 349 1163
ADDRESS:	2959 Mcgill Vancouver BC Canada

Work Experience

2021 - 2024
Intermediate Software Developer
Clir Renewables, Vancouver, (604) 628-3421

While employed at Clir, I contributed to both the frontend and backend teams, successfully deploying numerous new features to enhance the software's capabilities:

- Developed and deployed a comprehensive frontend system to display crucial turbine data to clients, resulting in improved data visualization and enhanced user experience.
- Provided training and mentorship to junior and intern-level team members to support their growth and help them excel in their roles within the company.
- Successfully identified and resolved multiple bugs, ensuring the stability and reliability of the software.

2017 - 2020
Full Stack Software Developer
Groundswell Cloud Solutions, Vancouver, (604) 628-3421

Was involved in all phases of the software development life-cycle for multiple clients with revenues in the billions, millions of rows of data, and hundreds of thousands of current users:

- Elicited and translated business requirements from clients into user stories, then helped in assigning them to team members
- Defined the architecture of products, then drilled down into the detail with the clients on how to deliver to market
- Wrote code for both back and frontend
- Continued maintenance for the product, including bug fixes/UI updates and database management

Freelance Experience

2020 - 2021
I've worked on various freelance projects for clients in Canada and the U.S. Here are a few examples:

SureWerx
Vancouver, BC
https://surewerx.com/ca

A total rebuild of their website for the Canadian market, including a database restructure, implementation of a shopping cart system, and user creation and login system.

Dust Networks, Inc.
Heyward, California

An application for Linear Technology's Dust Networks to monitor networks for testing purposes. Consists of a Python desktop application, a Django based server and a web page. My roles included development work and research.

Education

2009-2016 Bachelor of Science in Computing Science, **Simon Fraser University**

Projects

You can find the following projects as well as others on my website:
https://joseph-parker.ca

Pixel Sorter

A web app for creating glitch art using a concept called pixel sorting. Users can experiment with several different settings to create unique visual effects.
Link (Desktop only): https://joseph-parker.ca/pictor (Click 'Help and Examples' for further explanation)

    Frontend: React, Typescript
    Backend: Python, flask, opencv, numpy
    Hosted on AWS using ec2 and S3

Black Hole Visualization

An interactive implementation of Jean-Pierre Luminet's Image of a spherical black hole with thin accretion disk (1979). The first "image" of a black hole, hand plotted by Luminet in 1979 with the aid of an early computer. In my implementation, users can view the black hole from any inclination angle, as well as toggle between Einsteinian and Newtonian physics models and highlight select parts of the black hole to further help in understanding the image.
Link (Desktop only): https://joseph-parker.ca/luminet

    Images for each angle are pre-generated using Python and presented in a React App.
    Hosted on AWS using ec2 and S3

NeoWise

A game being developed for mobile devices, a personal project of mine. Still early in development. For a playable demo and more info please visit: https://joseph-parker.ca/neowise

    Being developed using LibGDX and Android Studio. I am programming everything in the game myself, including physics, collision detection, custom vertex and fragment shaders, handling of sprites and animations, input handlers and all game logic.

Computer Skills

Programming Languages:	Python, Java, TypeScript, Apex, VisualForce
Also experience in:	Go, Ruby on Rails, C++, MatLab, Haskell, LISP, Fortran, Unity, PHP
Frameworks / Libraries:	React, Django, jQuery, libGDX, D3.js, NumPy, SciPy
Test Frameworks:	pyTest, Selenium, Cypress
DataBase Systems:	PostgreSQL, SQLite, SQL
Development Tools:	Docker, Salesforce, Xcode, Android Studio
Version Control:	git, SVN, Jenkins
Web Services:	AWS, Heroku, OpenShift
Methodologies:	Agile, Scrum, Waterfall