

Parshan Pourbakht

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SKILLS & INTERESTS

Programming Languages: C, C++, Python, JavaScript, HTML, css, TypeScript, Java, Kotlin, SQL, x86

Software/Applications: IntelliJ, PyCharm, Maven, Android Studio, Jira, Visual Studio Code, Github, Bitbucket

Frameworks/Libraries: Angular, Pandas, Numpy, Spark

Interests: Tea/Boba, Fitness & Basketball, Hip-hop

WORK EXPERIENCE

Programming & Math Tutor

Sep 2016 - Jun 2020

School District 43

- Fostered academic success in struggling students in the subjects of Computer Programming and Math
- Demonstrated **rational communication** skills by teaching Java fundamentals to beginners
- Exhibited an ability to **meet deadlines** by assertively planning for exam dates and teaching course material early

PROJECTS

Neighbourhoods 101

Data-Driven Guide || *Python*

- Addressed unclear project requirements by seeking clarification through **questioning and seeking mentorship**
- **Filtered, cleaned, and analyzed data using Pandas** for the calculation and ranking of neighbourhood scores
- Enhanced organization by **modularizing components** and implementing a well-structured **data pipeline system**
- Visualized data results using MatPlot, Geopandas, and Plotly to better understand data trends and patterns

Prison Escape

2D Maze Game || *Java*

- Developed a 2D Maze game built with Apache Maven using Java standard libraries and JUnit for testing
- Structured around a **Scrum style** of development using **Object Oriented Design** principles and UML diagrams
- Wrote integration and unit tests, **creating bug tickets on Jira** during the testing phases of the development
- Resolved code smells and hierarchy problems by refactoring for easier maintenance and extendability

New Fit

Fitness Application || *SQL, JavaScript, HTML, CSS, PHP*

- **Strategized with team and communicated issues** clearly with context to quickly reach a solution
- Integrated a **relational database** as the back-end of the application using PHP and MySQL
- Designed ER diagrams for specifying entities with their attributes and their relationships with one another
- Wrote SQL queries for the access and creation of entity tables, with complete **understanding of SQL** commands

Animal Tracker

Angular Application || *Angular, TypeScript*

- Designed interface using Angular and Angular Materials to implement basic CRUD tasks
- Visualized locations using the Leaflet map API to track each animal on a map based on a coordinate
- Developed backend for the application using a storage service **API accessed via REST**

CardLink

Digital Business Card || *Kotlin, Android Studio*

- Satisfied app requirements demonstrating an ability to **adapt to changes and meet team deadlines**
- Developed the QR code functionality of Cardlink, allowing users to share, receive, and save contact information
- Implemented the camera functionality for users to take profile photos and select images from their phone gallery
- Created the navigation bar and the set up for the apps QR scanning, QR code, network, and user profile pages

EDUCATION

Simon Fraser University

Sep 2020 - Sep 2024

B.Sc Computing Science

CGPA: 3.7

Notable Classes: Computer Architecture, Data Science, Software Engineering, Data Structures & Algorithms I & II

Honors: SFU Scholar, SFU Deans List, SFU Entrance + Distinction, 2020 Terry Fox Valedictorian, SD43 Authority Awards