

Juan Beltran

253-883-7552 | juanbeltran2994@gmail.com | [linkedin.com/in/beltrajuanp](https://www.linkedin.com/in/beltrajuanp) | github.com/beltrajuanp

EDUCATION

University of Washington

B.S. Computer Science

Graduated June 2022

Seattle, WA

TECHNICAL SKILLS

Languages: Java, Python, SQL, JavaScript, TypeScript, HTML/CSS

Frameworks: React, Node.js, Tkinter, Django

Technologies: git, npm, Google Firebase, Microsoft Azure SQL, VS Code, IntelliJ, Github

EXPERIENCE

Intro Computer Science Teaching Assistant

Jan 2022 – June 2022

University of Washington

Seattle, WA

- Provided extra support for student's struggling in intro programming classes.
- Held weekly one on one meetings with individual students to develop and follow a roadmap for success.
- Held office hours for help with homework or other questions weekly.
- Tutored students on intro programming concepts in Java (loops, arrays, linked lists, dictionaries etc.).
- Connected students to various resources on campus (professors, advisors, offices).

Software Engineering Intern

Jan 2021 – March 2021

elphi

Boston, MA

- Designed and developed security features in a full-stack React web application.
- Added password requirements, multi-factor authentication, and email verification steps upon account creation to help the user protect their account by using React to implement the frontend and using Javascript and Firebase to implement the backend.
- Implemented authentication checks to the front-end of the application to ensure data can only be seen with the correct permissions and no data persists in incorrect locations without authentication using Firebase.
- Tracked user activity to alert users of suspicious activity on their data by comparing ip and device with previous data using Javascript and Firebase.
- Tools Used (Firebase, React, Javascript, NodeJS).

PROJECTS

UW Internet Browser | *Python, Tkinter, Javascript, Django*

- Built a modern web browser from the ground up with support for tabs, bookmarks, history, links, files, and JavaScript web applications.
- Used Python to connect to servers using a TCP connection to download webpages and recursively build DOM.
- Displayed website html and css to screen using tkinter.
- Interpreted Javascript using Django to allow scripts to manipulate the DOM.

Spark Airport Database Application | *SQL Server, Azure SQL, Java (JDBC)*

- Set up airport database that allows multiple users to login, search, book flights from database concurrently.
- Used transactions to allow multiple applications to access and manipulate database concurrently.
- Developed a terminal CRUD application using Java that allows users to perform different operations with database data.
- Designed database to hold all the flight and user information on Azure SQL.

UW Campus Paths Web Application | *Java, Javascript, React*

- Full stack web app that allows user to pick two buildings and displays the shortest path between them on map.
- Implemented Dijkstra's algorithm to find shortest path between two buildings in Java.
- Established backend server to gather requests and output the shortest path as a JSON string to the React app.
- Designed and executed frontend GUI with React.