

# Brian Le

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## EDUCATION

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### Portland State University

*Bachelor of Science in Computer Science.*

- Dean's List, Winter 2024
- President's List, Spring 2024

Portland, OR

Sep. 2021 – Present

## EXPERIENCE

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### Software Development Engineer in Test Intern

Aug. 2024 – Present

*The Standard*

Portland, OR

- Developed and integrated assertion handlers to test and process thousands of data with PySpark in Databricks
- Helped refactor portions of data curation code to test data and automate loading data into the database
- Developed efficient, scalable API endpoints to retrieve and remove numerous test data from Cosmos DB
- Experience with the Azure Cloud for development with the Data Services team

### Information Technology Assistant

Jan. 2024 – Aug. 2024

*Portland Community College*

Portland, OR

- Communicated with PCC faculties and manager to set up computers and devices used across campus
- Diagnosed and fixed computer problems that students and faculties face regularly
- Responsible for maintaining hundreds of computers, printers, and media equipment across campus

### Computer Science Tutor

Sep. 2022 – Jan. 2024

*Portland Community College*

Portland, OR

- Conducted one-on-one tutoring sessions with students assisting in computer science topics and assignments
- Aided students with preparing for exams and giving guidance to complete programming assignments
- Collaborated with other fellow tutors to assist students in subjects beyond computer science

## PROJECTS

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### KiokuCards.com | *JavaScript, React, Java, Spring Boot, MongoDB, AWS*

Aug. 2024 – Present

- Developed a full-stack online flashcard web application for users to create and manage flashcards for studying
- Built using React with Bootstrap, MongoDB, and Spring Boot deployed on AWS
- Developed REST API endpoints for CRUD operations in Spring Boot, enabling communication between the database and the front-end
- Integrated OAuth2 with Google for user authentication, account logins, and user-specific data

### Sales Tax Calculator App | *Kotlin*

Feb. 2024 – June 2024

- Created an Android app to accurately calculate the sales total including sales tax
- Implemented API calls using the Retrofit library to perform HTTP requests for fetching up-to-date sales tax data from any US states and cities
- Developed using Jetpack Compose for modern UI development
- In the process of publishing to the Google Play Store

### FTP Program | *C, AWS*

March 2024 – May 2024

- Developed an FTP program that sends and retrieves files between two computers on different networks
- Server program can be deployed on AWS's EC2 or a dedicated server computer as a 24/7 cloud drive to store and retrieve files
- Implemented a secure password protocol using hashing algorithms to validate client connections and utilized multi-threading to handle multiple file transfers in parallel
- Used IPv4 stream sockets on TCP ports to facilitate client-server communication and file transfers

## TECHNICAL SKILLS

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**Languages:** C++, C, C#, Python, Java, Kotlin, Typescript, JavaScript, HTML/CSS

**Developer Tools:** Git, VS Code, Visual Studio, IntelliJ IDEA, Docker, Databricks

**Libraries/Framework:** React, Bootstrap, Spring Boot, FastAPI, Pytest, PySpark

**Technologies:** PostgreSQL, MongoDB, Amazon Web Services, Azure Cloud