

Karena Qian

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<https://github.com/YiJiePV> | <https://yijiepv.github.io/>

TECHNICAL SKILLS

Languages—4+ years coding experience: Python, Java, C#, C++, C, JavaScript, Node.js, React.js, Rust, Scheme, Prolog, and F#; HTML and CSS

Software—Linux (Ubuntu (WSL) and Docker), GitHub, Git, VS Code, VS, Jupyter Notebook, Eclipse, CLion, Unity, Qt, MySQL Workbench, SQLiteStudio, Stack Overflow

GENERAL SKILLS

Analytical—Able to develop creative solutions to address open-ended problems; Motivated to find optimal solutions.

Teamwork—Proactive collaborator and communicator when working in teams; Actively strives towards team efforts.

Learner—Eager to learn with an open mind, with a willingness to learn from mistakes.

EDUCATION

Bachelor of Science, Computer Science

(expected graduation) June 2024

Seattle Pacific University, Seattle, WA

- **Awards:** 1st and 2nd place in the 2023 SPU Music Competition, Dean's List (Autumn 2021, Winter 2022, Spring 2022, Autumn 2022, Winter 2023, Spring 2023), In-State Match Merit Scholarship, Leighton Music Scholarship, Fine Arts Scholarship - Piano, PT and VE Walls Scholarship
- **Relevant Coursework:** C++, Data Structures, Algorithms, Probability and Statistics, Data Science, Discrete Mathematics, Calculus, Computer Architecture & Organization, Operating Systems, Programming Languages, Databases, Computer Networks, Cybersecurity, Systems Design, Web Development, Application Development

Associate in Arts and Science

June 2021

Running Start at Bellevue College, Bellevue, WA

- **Relevant Coursework:** Java, Data Structures, Fundamentals in Programming, Linear Algebra, Calculus

WORK EXPERIENCE

Office Manager

December 2022 - Present

Early Intervention Specialists, LLC, Graham, WA

- Managed office work for potential new hires, including editing and sending out monthly job postings and developing 10+ new contacts.
- Kept the birthday calendar organized and up to date and created 5+ personalized birthday cards for BT technicians.
- Sent at least 2 monthly email reminders and 20+ reports to the director and other staff

Software Testing and Quality Intern

June - September 2023

Impinj, Seattle, WA

- Created and integrated a REST API that provides support and additional features for Impinj's RFID reader testing suites.
- Interacted and collaborated with 6+ professionals both from my team and other teams to ensure that my software project meets demands and is of top quality.
- Independently researched and learned 8+ new technologies and concepts, including mocking, FastAPI, Maven, Gradle, Cake (C# Make), pytest, poetry, Docker scripts, and more.
- Initiated a joint collaboration between the Impinj marketing team and SPU's social media team to create this video about my internship experience at Impinj: <https://www.youtube.com/watch?v=f2YWt9j-ghs>.

COLLABORATIVE PROJECTS

Team Member, ECS RFID Tool Checkout System

October 2023 - Present

Seattle Pacific University, Seattle, WA

- Cooperating with 4 other peers to develop a full-stack React web application with RFID capabilities designed to assist SPU's Engineering Department's Engineering Lab Coordinator with managing and tracking lab tools.
- Helping develop the middleware and the backend software of the web application and assisting with researching and brainstorming RFID solutions.
- Participating in team ceremonies and meetings actively and engaged in close communication with all my team members.

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- Collaborating closely with the application's client, to ensure that we are meeting all the requirements for this application.

Team Member, Flowchart Application Group Assignment

February - March 2023

Seattle Pacific University, Seattle, WA

- Collaborated with another peer to develop a Java application that generates a quarterly course sequence that fulfills an undergraduate major's requirements and satisfies any given starting quarter and maximum credit constraints.
- Actively communicated with my work partner, built critical parts of the application, including the topological sort and a course flow generation algorithm, debugged/cleaned up the code, and wrote all the documentation.

Lead Developer, AES Encryption Group Assignment

February 2023

Seattle Pacific University, Seattle, WA

- Collaborated with another peer to build a C++ program that encrypts and decrypts text files using AES algorithm.
- Led team meetings, communicated actively with my team member, managed the workload and workflow, developed important components of the program, including AES's Mix Columns, and debugged/cleaned up the code.

CERTIFICATIONS

Cisco Intro to Software Engineering Virtual Experience Program on Forage

March 2023

Used React.js, Web APIs, and CSS to create an application that retrieves and displays IP addresses and network latency.

ADDITIONAL EXPERIENCE/TRAINING

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|---|---------------------------|
| • Seattle Pacific University Developers (SPUD), President <i>SPU, Seattle, WA</i> | September 2023 - Present |
| • SPU TA Grader <i>SPU, Seattle, WA</i> | September – December 2023 |
| • Introductory Coding for Medicine, Student <i>Coding for Medicine, Bellevue, WA</i> | August 2018 |
| • Girls Only Scholars Computer Science, Student <i>DigiPen Institute of Technology, Redmond, WA</i> | July 2018 |

OTHER INTERESTS AND HOBBIES

- Music: classically trained and proficient in piano and violin, can also play the viola, saxophone, organ, and more.
- Animation (particularly 3D): took a beginners animation course during middle school, and recently started picking up Blender.
- Playing Games: loves to play old and nostalgic party games, both board games and video games, with friends and family.