BOXIANG LIN

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TECHNICAL SKILLS

- Language: *Java, Python, C#, Haskell, SQL*
- OS: *Windows, Linux, Mac*
- Web Technologies: *HTML, CSS*
- Version Control: *Git, github, gitlab*
- IDE: *Visual Studio, Eclipse, PyCharm*
- Project Management: *Microsoft project*

EDUCATION

Washington State University | B.S. Computer Science | GPA: 3.92/4.00　　*Aug 2020 - Exp Grad: May 2023*
- **Courses:** Advanced Data Structure, Computer Architecture, Numerical Analysis, Software Engineering, Object-Oriented Software Principles, Programming Language Design, Computation Theory.

Seattle Central College | A.S. Computer Science | GPA: 3.90/4.00　　　*Sep 2019 – June 2020*
- **Courses:** Data Structure in Java, Java Programming, Calculus I-III, Differential Equations, Physics I-III

EXPERIENCES

Washington State University EECS | Undergraduate Research Assistant　　　*Oct 2021 – Until Now*
"Research assistant under Professor Haipeng Cai research lab, assist Xiaoqin Fu for ongoing projects."
- Participated in research of measuring interprocess communication (IPC) and quality of distributed system (DisFax toolkit).
- Currently working on information Flow Analysis for Distributed Software Systems and perform experiments for the Android compatibility study.

Washington State University EECS | Teaching Assistant　　　　　*Jan 2021 – Until Now*
"TA for courses Cpt_S 132 (Java Data Structure) and Cpt_S 233 (Advance Data Structure)."
Cpt_S 233 lecture by: Tao, Dingwen
- Setup the Docker container and Gitlab runner on the server to run the test suit through the Gitlab CI/CD pipeline; Distribute the assignments projects through Gitlab in a fashion of industry git version-control environment; Grade projects and exams; Provided two office hours each week.

SELECTED PROJECTS

Research Network Platform (Flask, Sqlalchemy APIs. Python, SQLite, HTML&CSS, Bootstrap)
- The agile scrum development methodology is used for the team development process.
- Developed a web app with faculty and student account login, research positions posting, displaying functionalities. Students apply certain research opportunities, faculty reviews, and update application status.

Spreadsheet Application (C#, Winform application, .NET framework)
- Develop the application with strong OOP design patterns and strong TDD process.
- An application simulates Excel. Functionalities are cells formula computation, redo and undo, background-color modification, saving the spreadsheet to XML, and loading the existing XML.

Library Management System (Java Swing, JDBC APIs, MySQL, and Window-builder)
- An application that modifies the data for the book in the database through MySQL upon the Java Swing GUI interaction. Functionalities are addition, deletion, and search for a category or a single book.

StopWatch (Verilog, FPGA board)
- Program that builds into the FPGA board, which enables the four seven-segment to display as a watch that controlled by four buttons. The buttons functionalities are: start, stop, increment, and clear.