

# Zizhen Song

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## Experience

### WEB APPLICATION DEVELOPER | UW TRANSPORTATION SERVICES | MAY 2019 – CURRENT

- Designed and developed a web application that organizes pictures of parking spots on the University of Washington campus into an interactive map using HTML, CSS, and Javascript
- Set up and deployed a backend ETL pipeline for data transfer and storage on UW servers using Python
- Implemented Agile development methodology by facilitating exercises such as sprint planning and weekly customer feedback review

### IMAGE-PROCESSING LAB ASSISTANT | UW CELL BIOMECHANICS LAB | MAY 2019 – JANUARY 2020

- Researched image processing techniques for analysis of heart tissues and platelet mechanics to understand causes of heart disease
- Automated biological image analysis by segmenting fluorescent protein imaging of platelets using morphological opening, and flood-fill operations
- Calculated contractional force of platelet cells through displacement evaluation of proteins in contact using MATLAB proprietary programming language

## Education

### UNIVERSITY OF WASHINGTON | SEATTLE, WA | EXPECTED GRADUATION: DECEMBER 2021

- Currently enrolled in Bachelor of Science in Computer Engineering (CE), GPA: 3.8/4.0
- Related coursework:
  - Data Structures & Algorithms
  - Database Systems
  - Software / Hardware Interface
  - Honors/Awards: Dean's List (5 quarters)
  - AI / Machine Learning
  - Fundamental Math: Linear Algebra, Calculus, Statistics/Probability

## Projects

### EVENT REMINDER | JAVA APPLICATION | MARCH 2020 – CURRENT

- Automated email reminder for upcoming events and daily news with Mac and Windows support
- Built using Java, Python, and Shell Script
- Current progress and setup instructions at <https://github.com/HolderOfTime99/EventReminder>

### DEPTS.WASHINGTON.EDU/TSEVENTS | INTERACTIVE MAP | JUNE 2019 – SEPTEMBER 2019

- Interactive map that hosts 360 images of parking spots on University of Washington campus
- Programmed using HTML, CSS, and JavaScript along with libraries such as jQuery, Leaflet, and Pannellum
- Published and hosted on UW servers

### ZIZHENSONG.COM | PERSONAL WEBSITE | JANUARY 2019 – CURRENT

- Programmed interactive resume using HTML, CSS, and JavaScript
- Hosted on Amazon Web Services

### LONGEST CHIMNEY | IOS GAME | MARCH 2017 – FEBRUARY 2019

- Designed and created iOS platformer game using Construct 2 game engine and GIMP graphics editor
- Compiled using Adobe PhoneGap and published on the iOS App Store
- Get your copy at: <https://apps.apple.com/gb/app/longest-chimney/id1449384671>

## Skills

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

Tools: IntelliJ IDEA, Visual Studio Code, Linux, Terminal, Vim, Git, AWS, Microsoft Azure