

# ANDREW JACKSON LE

## Software Engineer

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### EDUCATION

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#### Washington State University

August 2019 - December 2022

*B.S. in Computer Science*

*Pullman, WA*

#### Relevant Coursework

*Advanced Data Structures & Algorithms, Introduction to Database Systems, Software Engineering I*

#### In Progress

*Object-Oriented Software Principles, Artificial Intelligence, Graph Theory, Data Science*

#### Bellevue College

*A.S.*

*Bellevue, WA*

### TECHNICAL SKILLS

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<b>Languages</b>	(Proficient): Java   (Prior Experience): Python, JavaScript, C#
<b>Frontend</b>	HTML5, CSS
<b>Backend</b>	PostgreSQL, Flask
<b>Tools</b>	Git, Github

### PROJECTS

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#### Boids

🔗 [github.com/AndrewJLe/BoidProject](https://github.com/AndrewJLe/BoidProject)

*Boids is an artificial life program that simulates the behaviour of birds, fish, and swarms.*

- Developed a rudimentary physics engine to simulate Boid movement.
- Modeled various Boid behaviours and created algorithms for natural movement using JavaScript.
- Built custom libraries for 2D vector operations and mathematical calculations.
- Designed and assembled a GUI Boid Controller enabling user interaction and visualization of Boid's steering vectors and field of view using HTML, CSS, and JavaScript.

#### Yelp Data Search Application

🔗 [github.com/AndrewJLe/Yelp-Data-Search-Application](https://github.com/AndrewJLe/Yelp-Data-Search-Application)

*Y.D.S.A queries a large data set and extracts information about local businesses and Yelp users.*

- Generated Python scripts to parse and insert a data set containing over 3 million objects.
- Designed the Entity-Relationship model for the application and translated it into a Relational Schema.
- Wrote complex queries for the application's search functionality using SQL and C#.

#### Smile

*Smile is a website that allows users to login, post a story, and like other user's posts.*

- Utilized Object-relational mapping with Flask-SQLAlchemy to represent users and blog posts as classes.
- Handled user login state and password hashing using Flask-Login and Werkzeug.

### WORK EXPERIENCE

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#### Tsukushinbo

August 2017 - July 2019

*Server, Host, Assistant Chef, Dishwasher*

*Seattle, WA*

- Trained new hires and effectively communicated with the team to ensure customer satisfactory.
- Cooked, performed food preparation duties, hosted, and served tables.
- Analyzed and recorded daily sales reports to ensure sufficient amount of ingredients and supplies.