

LUKE WEILER

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EDUCATION

The Ohio State University
B.S. Computer Science and Engineering

Columbus, OH
August 2021 - Dec 2024

SKILLS

Programming Languages: Python, Javascript, Typescript, Java, C/C++, Ruby, HTML/CSS, SQL, Go, Rust, x86 assembly, Dart
Frameworks: React, Spring Boot, Rails, Flask, Django, Express.js, Next.js, Redux, Selenium, ESBuild, Jest, JUnit, Flutter
Tools/Platforms: Docker, AWS, Kubernetes, Linux, Git, PostgreSQL, Oracle SQL, MongoDB, Docker, Nginx, Figma
Certifications: AWS Cloud Practitioner, Certified Kubernetes Application Developer (CKAD)

WORK EXPERIENCE

JPMorgan Chase and Co.

Software Engineering Intern

June 2024 - August 2024

- Created new user interface and backend handling for the policy reviewer user type to a new regulatory reporting application with React, Java, and Oracle SQL.
- Ensured stability and smooth functionality in production environments by resolving critical defects and taking part in thorough end-to-end testing prior to and through the first production release.

Software Engineering Intern (Part-time)

September 2023 - May 2024

- Developed a new AWS EKS microservice to streamline the manual process of determining a customer's eligibility of lease to loan conversion with 1600 user requests processed to date with 0 production defects.
- Added complete application observability and alert triggering to the new application with Splunk and Datadog.
- Increased test coverage of 5 Java Spring Boot repositories from an average of 40% to 100%.

Software Engineering Intern

June 2023 - August 2023

- Saved 3 hours per week in manual team communication by creating a serverless web app to share a history of manual API tests using AWS Lambda with a DynamoDB database.
- Ensured project alignment with user needs through frequent meetings and presentations with users and managers.

Ohio Supercomputer Center

Student Software Engineer

February 2022 - May 2023

- Created a new web-based dashboard for monitoring supercomputer resources and identifying excessively strenuous processes using Ruby on Rails.
- Wrote a new optimized and functionally complete filesystem interface for researchers to manage files on supercomputer clusters through the web browser.

Monkeytype.com

Open Source Contributor

April 2021 - August 2021

- Reduced operating costs by 70% and marginally increased speed by architecting and implementing a new MongoDB and Express.js backend that serves over 100k users each day, replacing the previous Google Firebase solution.
- Enabled watching replays of typing tests by adding keystroke tracking and animated visualization.

LEADERSHIP

Competitive Programming Club at Ohio State | *Event Coordinator*

April 2022 - Present

- Organized competitive programming competitions at OSU for over 500 participants across 4 events.
- Rank in the top 5 competitors at OSU, placing 1st and 3rd in ICPC regional competitions for 2022 and 2023 respectively.

PROJECTS

mathgenerator *Python, Github*

<https://github.com/lukew3/mathgenerator>

- Created and maintain an open-source Python package with over 300 downloads per month that enables generating a wide variety of math exercises.
- Reviewed over 250 pull requests from 80+ international developers, ensuring code quality and adherence to standards.
- Created CI pipelines using Github Actions to ensure stability through automated code testing and linting.

Stem Player Online *Javascript, Web Audio*

<https://stemplayeronline.com>

- Made a web app used by 3000 people per month to creatively play music by isolating and manipulating individual instruments.

3cards *Next.js, GraphQL, Javascript*

<https://3cards.xyz>

- Developed a web3 application that allows users to create and share flashcard sets at 0 cost, to both the user and the server.
- Winner in the Arweave Community Hackathon.