

# ELIAS SIMPSON

Software Engineering  
Ames, Iowa

## EDUCATION

**B.S.:** Software Engineering  
Iowa State University  
Expected 12/2023  
GPA: 3.88

**M.F.A.:** Creative Writing  
Virginia Tech

**B.A.:** English and French  
The University of Iowa

## SKILLS

### Languages

JavaScript, TypeScript  
Python  
Java  
YAML  
C, C++  
SQL

### Frameworks and Systems

AWS  
Docker  
Kubernetes  
Spring Boot  
React  
Angular  
Git

### Courses

Algorithm Design  
Data Structures  
Database Management  
Senior Design  
Introduction to ML

## PROFESSIONAL EXPERIENCE


### Software Developer Apprentice

 Source Allies

September 2022 – Present

- Train new employees in extreme programming methodologies: agile workflow, test driven development, pair programming. Organize and manage project timelines and versions through GitHub and Jira.
- Lead team in implementing internal microservice API on AWS, offering centralized data records of employee accounts using CloudFormation and Python—including test suite in Pytest.
- Integrated microservice into API logic of existing projects with multi-layer refactoring and test updates, reducing overall coupling and maintenance.
- Worked with fast-paced team to deliver company's serverless AWS dashboard: wrote comprehensive test suite and led discovery and resolution of significant edge cases and final acceptance testing.

### Software Developer Intern

 Berkley Technology Services

May – July 2022

- Built new features for the company's policy and quoting platform (servicing multi-billion dollars in premiums), including a deep link for users to navigate directly to source of input errors.
- Collaborated and communicated with agile team in sprints and standups.

### English Lecturer

 Iowa State University

August 2018 – June 2020

- Led team in planning and designing new online pilot course for a university-wide general education requirement. Evaluated, implemented, and communicated continual improvements with students, colleagues, and administration across multiple programs.
- Taught introductory level courses in college composition, improving student competency in critical reading, analysis, and argument skills.

## PROGRAMMING PROJECTS

### Student Journey Map, LTI for Canvas LMS

- Redesigned server architecture for project's mark two: including simplification of existing microservice IaC.
- Built Docker images and deployed them on Kubernetes.

### Party Parade, Event-hosting app

- Worked with a small team to develop an app for users to plan and attend events.
- As backend developer, I designed and implemented tables, relationships, and SQL queries within the Spring Boot framework.

### Bit Magnet, Social media website

- Using agile methods, designed and hosted a social media site with three teammates.
- Designed and fine-tuned interactive frontend elements: mouse shadowing, drag-and-drop, and making requests in NodeJS.