

# Charles P. Thomas

Oakland, CA 94612

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*Recent Computer Science graduate with great knowledge of software development, design, and testing. Seeking to utilize excellent programming, debugging, and problem solving skills to thrive as a software engineer.*

## Education

### Mills College, Oakland, CA

August 2019 - May 2021

- Master of Arts in Interdisciplinary Computer Science, GPA: 3.965
- Thesis: Teach Assist: *A Web Application for Game-Based Learning*
- Coursework:
  - Data Structures and Algorithms
  - Theory of Algorithms
  - Software Engineering
  - Data Analysis
  - Programming Languages
  - Computer Architecture
  - Theory of Computation
  - Production Java
  - Game Development
  - Thesis for Master of Arts
  - ICS Research Process
  - Java and C++ Programming

### Indiana University, Bloomington, IN

September 2005 - May 2009

- Bachelor of Arts in Mathematics
- History Minor and Music Studies Minor

## Skills

Java, Python, Django, Ruby, C++, C, C#, HTML/CSS, Atom, Heroku, Bulma, JavaScript, Git/Github, Unity, Assembly, Eclipse, NetBeans, Visual Studio, NumPy, Pandas, Seaborn, JUnit, AWS (S3, Elastic Beanstalk, RDS, Route 53, CodeCommit, EC2, IAM), Scheme, Haskell, SQL, Docker, Spring Boot, Mockito.

## Experience & Projects

### Graduate Teaching Assistant [Java, Python] Mills College, Oakland, CA

August 2019 - December 2020

- Provided constructive feedback, clarification, and grading for students enrolled in Theory of Algorithms, Theory of Computation, Discrete Math, and Data Structures.
- Assisted Professors with website maintenance, office hours, and grading.

### Full-Stack Developer [Python, JS] [Teach Assist](#), Oakland, CA

December 2020 - May 2021

- Created a Django/Python application intended for teachers. Teachers can create, edit, and share games intended for classroom use. Teachers are able to create companion quizzes for each game.
- Deployed the app using Elastic Beanstalk, integrated AWS S3 buckets for image storage, incorporated AWS RDS for relational database cloud storage, and used Bulma as a CSS framework.

### Full-Stack Developer [Python] [Find the Rock App](#), Oakland, CA

July 2020 - December 2020

- Created a Django/Python application allowing users to create and browse locations of sports in their area. Users are able to share locations of their favorite sports in their area.
- Integrated Google Maps API for location services, incorporated PostgreSQL for database management, and deployed using Heroku.
- Applied AWS services for dynamic uploading of files.

### Full-Stack Developer [Java] [Klotski Gaming App](#), Oakland, CA

April 2020 - July 2020

- Developed a sliding block puzzle game in Java utilizing JavaFX.
- Created features to automatically solve the game for players, play music, undo moves, and restart the game.

### Mathematics Teacher Skyline High School, Oakland, CA

June 2017 - May 2019

- Designed and implemented lesson plans for grades 9-12 in Algebra and AP Statistics.
- Cooperated with teachers, parents, and students to ensure students had the best learning environments.
- Helped groups of students reach their mathematics goals.