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 an entry-level 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, 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, Blender, 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.