Isaac Berman

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EDUCATION

University of California, Irvine   Irvine, California
B.S. in Computer Science, B.S in Software Engineering, Minor in Statistics   Sep 2018-Jul 2022 (Expected)
Donald Bren School of Information and Computer Science
Current Cumulative GPA: 3.938

WORK EXPERIENCE

Ardent Academy for Gifted Youth - Software Engineer Intern   Irvine, California
- Prototyped, refactored, and finalized React and React Native apps used by 1,000s of students,   May 2019 - Sep 2019
  parents, employees, and instructors to manage extracurricular courses and activities
- Designed and implemented sorting and filtering algorithms for a GraphQL/RethinkDB backend service that reduced
  loading times by 95%
- Developed Ardent CheckIn, a React Native iPhone app used by students to find their course information and check in
  to their classes, from prototype to completion
- Managed projects, tasks, and stories on 3-5 software projects with Atlassian Jira project management software
- Gained proficiency with: Javascript, Typescript, React, React Native, GraphQL, Apollo, RethinkDB, node.js, Git, Jira

FireCracker Math Summer Camp - Math Instructor   Oakland, California
- Taught extracurricular math to classes of 20 elementary and middle school children Jun 2018 - Jul 2018
- Developed daily lesson plans and activities

University of California, Berkeley - Academic Intern   Berkeley, California
- Tutored classes of 30-40 UC Berkeley students   Aug 2017 - Dec 2017
- Assisted students with homework and class projects in Python, SQL, and Scheme
- Evaluated students with interactive quizzes

PROJECTS

Jotto - jotto.isaacdb.com
- Online two player word game web app with chat room and reconnect features
- Used websockets to implement real-time chat and gameplay
- Utilized: node.js, express.js, socket.io, HTML/CSS/JS

J3FF QUEST - modjular.itch.io/j3ffs-quest
- Developed a 2D platformer video game in a team of 6
- Designed character concept and implemented movement and controls
- Produced music and sound effects
- Utilized: Unity, C#, Ableton Live

Spyfall Redux - spyfall.isaacdb.com
- Modified an open-source party game web app with QOL improvements and additional content
- Implemented real-time multiplayer behaviors with MeteorJS
- Improved design, styling, and gameplay based on user feedback
- Utilized: MeteorJS, HTML/CSS/JS

SKILLS

- **Proficient Technologies:** Python, Javascript, HTML/CSS, React, React Native, GraphQL, node.js, Git
- **Familiar Technologies:** C, C++, C#, Go, REST, LaTeX, RethinkDB
- **Relevant Courses:** Data Structure Implementation and Analysis, Design and Analysis of Algorithms, Discrete Math
  for Computer Science, Programming in C/C++, Principles in System Design