EVAN CRABTREE

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EDUCATION

Masters of Computer Science, Arizona State University   Expected May 2024
Specialization in Arts, Media, and Engineering.
Relevant Coursework: Computer Graphics, Data Visualization, Software Project Management.

Bachelors of Computer Science, Arizona State University   May 2023
Relevant Coursework: Object-Oriented Programming, Software Engineering, Database Management,
Machine Learning, Information Assurance, Computer Networking, and Operating Systems.

Certificate in Computer Gaming, Arizona State University   May 2023
Relevant Coursework: Game Engine Development, Game Design and Shader Programming.

EXPERIENCE

Software Engineering Intern   May 2023 - Aug 2023
Niantic, Pokémon Go   *San Francisco, CA*

- Full-stack feature development in Unity and Java working on PokéStop Showcase, a local leaderboard of trainers' Pokémon.
- Designed and refactored server actions, RPCs and Protobufs, to meet cross-functional needs.
- Integrated new API version and wrapper library to fix a bug affecting 85,000 weekly requests.

Undergraduate Research Assistant   Aug 2022 - April 2023
Arizona State University   *Tempe, AZ*

- Research focused on the intersection of Database Systems and Machine Learning under Dr. Jia Zou.
- System design and development for re-writing queries using a context-aware, contrastive learning approach.
- Anaylzed state of the art literature and developed technical presentations summarizing their contents.

Software Engineering Intern   May 2022 - Aug 2022
Niantic, Geospatial Data   *San Francisco, CA*

- Full-stack development of a surveyor management web tool using React, TypeScript and Google Cloud Platform.
- Dynamically fetch meshes and point clouds using Lightship VPS to be rendered on web using ThreeJS.
- Refactored existing UI and data model to better match mocks and updated work flows using cross-functional feedback.

PROJECTS

Kitty Kart Produced and developed a 3D multiplayer kart racer with AI generated tracks and player skins using Unity, DALL-E, ChatGPT, Lexica and Photon Fusion.

Cool Routes Created a real time web application routing users based on thermal comfort using the SOLWEIG Mean Radiant Temperature Model, Django web servers, React and ArcGIS.

EXTRA-CURRICULAR ACTIVITIES

- President for Arizona State University Chapter of Out in STEM with over 375+ members. Actively involved in facilitating events, career conversations, and making STEM more inclusive for LGBTQ+ individuals.
- Member of the Software Developer's Association, Machine Learning and Video Game Development Club.

SKILLS

Languages	Java, TypeScript, HTML, CSS, C#, PostgreSQL, Python
Technologies	React, Git, Unity, Node.js, Express, Google Cloud, Jira, Redis