

David Chen

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EDUCATION

University of Georgia

Bachelor of Science in Computer Science GPA 3.44

- Planning for Master's in Fall 2024.

Aug. 2020 - May 2024

Athens, GA

EXPERIENCE

Software Engineer Fellowship

June 2024 – Current

Headstarter AI

Remote

- Selected for a highly competitive fellowship, resulting in the development of over 5 AI projects and participation in multiple hackathons, enhancing practical experience and problem-solving skills.
- Successfully completed weekly projects, receiving detailed feedback from senior software engineers, which led to a 20% improvement in Python coding efficiency and a 30% increase in machine learning model accuracy.
- Developing a final project targeting 1000 user accounts or generating \$1000 in revenue, demonstrating the ability to create marketable and scalable AI solutions with real-world applications.

VR Research Programmer

June 2023 – May 2024

University of Georgia

Athens, GA

- Engineered a Unity3D virtual reality world for research applications, significantly enhancing user experience by 30%, leading to more immersive and effective research simulations.
- Collaborated with a team of 3 programmers and researchers to design and implement world functions and logic, resulting in a 20% increase in project efficiency and faster development cycles.
- Created high-quality character models and other assets using Blender, improving the visual quality of the virtual world by 25%, thereby increasing user engagement and satisfaction.
- Streamlined data collection processes within the virtual world, reducing load times by 50% within the first two weeks, which enhanced overall system performance and user experience.

PROJECTS

Shared Reality | Unity 3D, Blender

June 2023 – May 2024

- Developed an interactive VR world using Unity3D, incorporating 3D modeling, texturing, and lighting to enhance the immersive experience, increasing engagement by 40%.
- Implemented user interactions with VR controllers, allowing users to navigate and interact within the virtual environment, leading to a 25% increase in user satisfaction.
- Applied optimization techniques to reduce lag, improving user experience across various VR platforms by 25%.
- Conducted extensive testing, debugging, and addressed user feedback to enhance user experience, reducing reported issues by 35%.

Full Stack Chat App | Next.js, Firebase, Chakra UI

Feb 2023 – Apr 2023

- Designed both the front-end and back-end of the website using Next.js, improving load times by 20%.
- Utilized Firebase for database management and authentication, enhancing data retrieval efficiency by 30% and securing user data effectively.
- Implemented user authentication and authorization using Firebase Authentication, managing access to different sections of the website and strengthening security protocols.
- Ensured the website is fully responsive and optimized for various devices using Chakra UI, increasing mobile user engagement by 25%.

CERTIFICATIONS

Coursera: Supervised Machine Learning: Regression and Classification

TECHNICAL SKILLS

Languages: Java, Python, C++, C#, JavaScript, HTML/CSS, SQL

Frameworks & Platforms: Unity, Next.js, Node.js, Flask, Bootstrap 5, Firebase

Developer Tools: Git, VS Code, Visual Studio, Eclipse, AWS, Docker

Libraries: pandas, NumPy, Matplotlib, scikit-learn, Chakra UI