

Benjamin Wang

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EDUCATION

University of Virginia

Bachelor of Science in Computer Science

Charlottesville, VA

May 2025

EXPERIENCE

Audio-Visual Technical Assistant

University of Virginia

September 2022 – May 2025

Charlottesville, VA

- Delivered technology/troubleshooting support for audio-visual equipment for campus university events
- Exhibited and exercised a meticulous attention to detail through persistent maintenance and equipment setup
- Strengthened information technology skills and problem-solving capabilities through effective hands-on training
- Cultivated strong interpersonal and conflict resolution skills through consistent client interactions

Student Developer/Scrum Master

Puzzle App @UVA

September 2023 – December 2023

Charlottesville, VA

- Collaborated with a team of student developers within an Agile environment to create a full-stack Django application allowing creation/playing of geographical-based puzzle hunts
- Developed and tested several core features regarding puzzle creation, gameplay, and moderation management
- Enhanced leadership and communication skills through effective team collaboration as Scrum Master through weekly team meetings and bi-weekly sprint reports

PROJECTS

ML4VA: Predicting UVA Course Difficulties | *Python, scikit-learn*

October 2024 - December 2024

- Designed a Random Forest model to help predict course GPA's at UVA, achieving an overall RMSE of ± 0.2
- Preprocessed a dataset of 29,964 entries, using techniques like imputation, standard scaling, and one-hot encoding on categorical data to optimize model performance
- Planned and produced a comprehensive presentation video showcasing the project's process, findings, and insights, winning second place in the ML4VA Fall 2024 Competition

Wordle Screenshot Parser | *Python, OpenCV, TesseractOCR, NiceGUI*

May 2024 - August 2024

- Designed and implemented a Python-based data analytics tool responsible for automatically extracting/parsing game information from Wordle screenshots
- Integrated a series of smart filters and correction systems to handle several types of edge cases, increasing screenshot detection rate to 96% and accuracy rates to 85%
- Implemented a NiceGUI frontend developer interface allowing better visualization of system's logic and behavior

Portfolio Website | *Javascript, React, TailwindCSS, Next.js*

July 2024

- Developed a single page, modal-like portfolio from scratch using Next.js and React
- Enhanced frontend development proficiency in technologies, overcoming challenges with CSS and animations, and actively incorporated user feedback for design improvements

SKILLS

Languages: Python, Java, JavaScript, C, SQL

Web Development: HTML/CSS, Django, Express.js, Next.js, React, TailwindCSS

Tools and Libraries: NumPy, OpenCV, TesseractOCR, JUnit, FXML, Pygame

Softwares/Platforms: Microsoft Office, Google Office Suite, Adobe Photoshop and Premiere, Godot, Solidity/Remix