Cameron Chafin

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Education

Oregon State University — Corvallis, OR
Bachelor of Science in Computer Science — *Sept. 2022 – Present*

University of the Incarnate Word — San Antonio, TX
Bachelor of Arts in Fine Arts — *Aug. 2009 – May 2013*

Projects

Personal Portfolio Website | *Python, Flask, HTML, Bootstrap CSS, AWS Elastic Beanstalk, Git* — July 2023

- Developed Flask web app to serve as my personal developer portfolio website
- Utilized Bootstrap and CSS to create a visually appealing and responsive user interface
- Implemented server-side form validation and email integration with Flask-WTF and SMTP
- Deployed on AWS Elastic Beanstalk for optimal scalability and high availability

Vocabulary Worksheet Generator | *OpenAI API, Python, Flask, Bootstrap CSS, Heroku, Git* — May 2023

- Collaborated with a hackathon team to develop a resource generator for English Teachers
- Designed and implemented a form to pass user input as a call to OpenAI API
- Developed customized results page that presents API response as a downloadable .PDF worksheet
- Deployed application using Heroku and presented virtually at the 2023 Spring Beaverhacks Hackathon

Halma Game | *Python, PyGame, Git* — April 2023

- Developed a single-player strategy board game in Python based off Chinese Checkers
- Implemented minimax algorithm with alpha-beta pruning to enable game play against AI opponent
- Enhanced player experience by creating visually pleasing graphical user interface with PyGame library
- Designed evaluation algorithm, optimizing move decisions resulting in an intelligent and strategic AI player.

Music and Mental Health | *Python, Matplotlib, Seaborn, NumPy, Pandas, JupyterLab, Git* — January 2023

- Worked in a hackathon team to conduct a data analysis of the affects music on mental health
- Aggregated, cleaned, and analyzed public data set in JupyterLab with Python
- Leveraged multiple Python libraries to visualize and manipulate data for useful analysis
- Presented team's analysis and findings virtually at the 2023 Winter Beaverhacks Hackathon

Technical Skills

Languages: Python, JavaScript, HTML/CSS, x86 Assembly
Frameworks: React, Node.js, Flask, Bootstrap
Developer Tools: Git, AWS, Heroku, VS Code, Visual Studio, PyCharm, JupyterLab
Libraries: PyGame, pandas, NumPy, Matplotlib, Seaborn

Experience

English Teacher — Feb. 2020 – Present
Kyonggi Elementary School — *Seoul, South Korea*

- Employed innovative teaching methods to facilitate English language acquisition for diverse students, fostering strong communication and adaptability
- Developed interactive educational resources and technology-driven activities to enhance student engagement and critical thinking.
- Collaborated with cross-functional teams of educators, parents, and administrators to implement data-driven strategies and achieve measurable learning outcomes.
- Utilized data analysis and student assessments to tailor personalized learning plans, demonstrating strong analytical and problem-solving abilities.
- Adapted to dynamic classroom environments and rapidly embraced new technologies, showcasing flexibility and a growth mindset.