

CHRISTOPHER FABIAN

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Summary

Passionate AI and machine learning enthusiast with a strong focus on leveraging AWS cloud services and cloud computing to drive innovation and efficiency in software development. With expertise in AI integration, computer vision, and machine learning, I have hands-on experience in utilizing AWS tools to develop scalable solutions for diverse applications. I hosted my own static website on AWS S3, showcasing my technical skills and commitment to cloud-based solutions. My journey includes integrating AI into business workflows to optimize operations, creating a learning module-based application for UC Merced, and using IBM tools to learn and explore cutting-edge AI solutions. I am dedicated to advancing the software industry and exploring the vast potential of AI technology to transform the future.

Key-Skills

Amazon Web Services
Website Deployment

AI Integration
API Services

UI/UX Design
Responsive Design

Mobile Development
Chatbot Development

Technical Skills / Certifications & Specializations

Languages: C++, C#, C, Swift, Python, Java, HTML/CSS

Developer Tools: AWS, VSCode, Godot, Figma, Docker

Technologies/Frameworks: GitHub, Linux, Flask, Node.js

Course Certification: Building Generative AI-Powered Applications with Python, Python for Data Science, AWS Cloud Essentials

Specialization: IBM AI Developer, AWS Fundamentals

Projects

Personal Website | *AWS, GitHub, HTML*

November 2024

- The website is hosted on Amazon Web Services (AWS) using S3 for scalable, secure, and highly available static website hosting for HTTP requests only at the moment
- Configured GitHub repository with a YAML workflow file to enable automatic updates to the website whenever changes are pushed to the main branch.
- Designed as a central hub to host upcoming resume projects and provide accessible, up-to-date resume information

AI Workflow Integration | *Zapier, ProCore, Quickbooks, DropBox*

May 2024

- Leveraged Zapier to streamline and automate office workflows, significantly enhancing operational efficiency and reducing manual task overhead.
- Collaborated with office staff to pinpoint strategic integration points for AI, ensuring seamless user adoption and optimizing process efficiency for improved productivity

EJIE Learning App | *Flutter, FlutterFlow*

April 2024

- Managed the development of an innovative learning module application focused on Equity, Justice, and Inclusive Excellence (EJIE). Utilized Flutter and Flutter Flow for front-end design and Firebase for seamless back-end integration, significantly enhancing user engagement and improving platform usability and user interaction)
- Incorporated diverse learning modules, interactive content, and user-driven features, fostering inclusive knowledge exchange

Plant Pathogen Classification | *Python, Pytorch, Tkinter, GitHub*

September 2023

- Developed a computer vision classification algorithm using Convolutional Neural Networks (CNN), transforming labeled images into actionable insights for Sunburst Agri Biotech Solutions LLC. Successfully implemented this into a desktop application, enhancing the company's ability to process and categorize visual data
- Utilizes image processing and machine learning to accurately identify pathogen types, presenting results in a user-friendly interface
- Trained the algorithm with a diverse dataset of hundreds of pathogen images, ensuring unbiased data and maintaining a well-organized and consistent labeling system

Education

University of California, Merced

August 2020 – May 2024

Bachelor of Engineering in Computer Science and Engineering, GPA: 3.66

Merced, CA

- **Relevant Coursework:** Software Engineering, Game Programming, Computer Graphics, Human-Computer Interaction, Data Structures, Object Oriented Programming, Vector Calculus, Discrete Mathematics, Computer Vision

Work Experience

Equity Justice and Inclusive Excellence Programmer

Fall 2023 – Spring 2024

Student Success Intern

University of California, Merced, CA

- Collaborated with a team to develop an engaging learning module app for the EJIE department using Flutterflow, featuring interactive tutorials, timed readings, linked articles, YouTube videos, and quizzes.

Mail and Document Services

Summer 2023 – Summer 2024

Student Worker

University of California, Merced, CA

- Worked with a team to manage interoffice and postal mail delivery, delegate tasks for efficiency, log incoming packages, and maintain printer rooms by refilling paper and fixing machines.

Leading Edge Construction

Summer 2024

Freelance

Los Banos, CA

- Conducted presentations to office team on AI applications in the workplace; currently discussing integration of these AI applications into their workflow.