CHRISTOPHER FABIAN

San Pedro, CA 90731

📞 (209)504-1352 ✉ cfabian2127@gmail.com 🔗 christopher-fabian7777 🌐 cnfabian.com ⌨ CNFabian

Summary of Qualifications

- Hands on experience with **SQL** and **BigQuery** for handling datasets
- Working with **Python** and **Pandas** to make machine learning models
- Proficient in **React.js** for developing interactive and efficient web applications.
- Developed an **interactive portfolio website** and other projects showcasing technical skills.
- Strong problem-solving skills in designing and implementing **technology-driven solutions**.
- Skilled in **UI/UX design**, creating intuitive and user-centered digital experiences.
- Experience deploying and managing applications using **AWS** for scalability and performance.
- Strong understanding of **AI**, **machine learning**, and workflow optimization.
- Integrated **AI-driven solutions** into workflows to streamline processes and enhance productivity.

Key-Skills

Website Development	API Services	UI/UX Design	Mobile Development
SQL	Data Analyzing	Version Control	Amazon Web Services

Technical Skills / Certifications & Specializations

Programming Languages: C++, Python, JavaScript, C#, C, Swift, HTML/CSS, Node.js
Database: SQL, Pandas, BigQuery
Software & Tools: GitHub, VSCode, React.js, Hugging Face, AWS (S3, Lambda, Amplify), RESTful APIs, Figma, Docker, Godot, Zapier, HubSpot, WordPress
Certifications & Specializations: Kaggle - SQL, Advanced SQL, Python, Machine Learning, Data Visualization
IBM AI Developer, AWS Fundamentals

Work Experience

Website Redesign & Development Contractor
January 2025 – March 2025

Mitchell First Circuit CASA — *Remote*

- Redesigned and developed a responsive website using HTML, CSS, and JavaScript, improving accessibility and user experience.
- Used Figma to design the site's layout and visual elements, ensuring a user-friendly experience.
- Enhanced navigation and added interactive elements to effectively engage volunteers and donors.
- Created a video in Adobe After Effects to showcase the redesign process.

Solutions Developer
May 2024 – July 2024

Leading Edge Construction — *Los Banos, CA*

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

Student Assistant
July 2023 – July 2024

Mail and Document Services — *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.

Application Developer
November 2023 – April 2024

Equity Justice and Inclusive Excellence Department at UC Merced — *University of California, Merced, CA*

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

Web App Developer
August 2023 – December 2023

Sunburst Agri Biotech Solutions LLC — *University of California, Merced, CA*

- Designed and implemented a **computer vision model** utilizing **Convolutional Neural Networks (CNN)** to classify pathogen types with high accuracy. Trained the algorithm on a **diverse dataset** to enhance reliability and consistency.
- Integrated image processing and machine learning techniques into a **cross-platform application** for Sunburst Agri Biotech Solutions LLC, delivering a **user-friendly web and desktop solution** for real-time pathogen identification.

Projects

AI Image Captioner | *AWS Lambda, AWS API Gateway, Python, HTML, JavaScript, CSS*   **March 2025**
- Developed a **serverless image captioning service** by integrating a **Hugging Face model** with **AWS Lambda**, enabling efficient and scalable image analysis without maintaining server infrastructure.
- Engineered **RESTful API endpoints** using **AWS API Gateway** to handle image uploads, processing requests, and response delivery with proper error handling and status codes.
- Created a responsive front-end interface with **CSS Grid and Flexbox** that dynamically displays processing status and adapts the presentation of image captions across devices.
- Utilized **API throttling and caching mechanisms** to optimize performance and reduce costs while maintaining high availability during traffic spikes.

Secret Page | *React.js, HTML5, CSS3, JavaScript*   **December 2024**
- Developing an interactive and responsive **Secret Page** using **React.js** with **useState hooks** for state management and a component-based architecture for modular and reusable design.
- Utilized **HTML5 and CSS3** for semantic structure, custom styling, animations, and responsive layouts, ensuring optimal user experience across devices.
- Implemented dynamic feedback mechanisms with JavaScript, including validation of puzzle inputs using regular expressions and programmatic comparison of user input against predefined solutions.
- Designed an interactive grid layout with **responsive CSS media queries** and flexible layouts, adapting seamlessly to various screen sizes.
- Integrated **problem-solving logic** to dynamically reset and reinitialize grid states, enhancing usability and user engagement.

Personal Website | *AWS Amplify, React.js, GitHub, HTML5, CSS3, JavaScript*   **November 2024**
- Deployed and hosted the website using **AWS Amplify**, ensuring scalable, secure, and reliable performance.
- Implemented a multi-page structure featuring a **Resume**, **About**, and a **Secret Page** that highlights unique and imaginative content.
- Developed the website using the **React framework**, enabling a modern, responsive, and user-friendly design.
- Configured a GitHub repository for continuous deployment, automating seamless updates with every push to the main branch.
- Designed as a centralized hub to showcase professional projects and personal creativity.

AI Workflow Integration | *Zapier, ProCore, Quickbooks, DropBox*   **May 2024**
- Leveraged Zapier to streamline and automate office workflows, significantly enhancing **efficiency** and reducing manual task overhead.
- Collaborated with office staff to identify strategic integration points for AI, ensuring seamless adoption and optimizing **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 FlutterFlow for front-end design and Firebase for seamless back-end integration, enhancing user engagement.
- Incorporated diverse learning modules and interactive features, promoting **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.
- Utilized image processing and machine learning to accurately identify pathogen types, presenting results in a **user-friendly web application**.
- Trained the algorithm with a **diverse dataset** of pathogen images, ensuring unbiased data and consistent labeling.

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, Statistics, Discrete Mathematics, Computer Vision