

# Irvin Brian Tancioco

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**Summary:** A recent UC Berkeley EECS (Electrical Engineering and Computer Science) graduate with a diverse skill set, combining expertise in human-centric design and software development. Transitioning from a background in tax preparation to software engineering, I'm keen to apply innovative solutions to improve user experiences and optimize development workflows. Proven track record of active collaboration in team settings, from concept to product launch, with strong skills in Python and Agile software development practices.

## SKILLS

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**Strategic Competencies:** Effective cross-functional collaborator, highly skilled in workflow and process efficiency, solutions-oriented professional with keen problem-solving skills, possessing a growth mindset, demonstrating a willingness to learn, and exhibiting persistence.

**Coursework:** Data Structure, Algorithms, Optimization, Artificial Intelligence, Machine Learning, Agile Software Development, SaaS, Cybersecurity, Designing Information Devices and Systems, Design Methodology, UX Design

**Tools:** Python, Java, C++, HTML, CSS, Numpy, Git(Hub), Adobe Suite

## WORK EXPERIENCE

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### Web Developer

Aug 2021 - Dec 2022

#### Freelance

- Designed and implemented WordPress-based websites for seven local businesses, significantly boosting their brand visibility and digital presence
- Applied SEO tactics for improved brand visibility, resulting in a 9.7% boost in organic search traffic, leading to increased brand recognition and customer acquisition
- Enhanced user experience by using HTML and CSS to align website visuals with brand standards

### Lead Instructional Aide in Computer Science

Aug 2017 - May 2018

#### City College of San Francisco

- Mentored 100+ students for 320 hours, elevating programming literacy and fostering a passion for technology. Focused on reinforcing foundational understanding of C++ and fundamental problem-solving strategies, leading to improved student engagement and comprehension
- Conducted detailed assignment reviews, provided actionable feedback, and facilitated tutorial sessions to deepen students' understanding. Improved student performance and programming skills, leading to enhanced assignment grades and positive course feedback
- Managed a team of five teacher assistants to ensure adherence to weekly priorities, resulting in a 15% improvement in classroom efficiency and productivity

### Tax Professional / Consultant

Jan 2015 - Present

#### Lacayo & Associates (Seasonal)

- Supported over 900 clients in meeting tax compliance, deepened understanding of tax regulations, and drove the digital modernization of tax filing processes, resulting in a 28% increase in system financial performance
- Utilized excellent customer relationship skills to educate and reassure clients, and applied strategic planning to optimize tax outcomes
- Improved tax return filing accuracy by 6% through implementation of error handling and documentation, resulting in increased client satisfaction and referrals

## EDUCATION

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**University Of California Berkeley College Of Engineering**  
Bachelor Of Science in Electrical Engineering And Computer Science

Aug 2023

**City College Of San Francisco**

Associate Degree in Computer Science (with Highest Honors) • GPA: 3.96

May 2020

## PROJECTS

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### **Key Facial Points Detection**

In this project, I have applied a deep learning model based on Convolutional Neural Network and Residual Blocks to predict facial key-points. Facial Key-Point Detection serves as a basis for Emotional AI applications like detecting customer emotional responses to Ads and Driver Monitoring Systems.

### **Deep Learning for Real Estate Price Prediction**

Implemented Real Estate price predictions using deep learning

### **Diabetes Binary Classification**

The goal is to classify diabetes diagnosis based on various patient data. The dataset includes demographics, lifestyle, medical history, clinical measurements, medications, symptoms, and more. The aim is to identify factors strongly correlated with diabetes and use these features to train a classification model.

### **Sixt33n voice-controlled Toy Car**

Integrated complex software algorithms and robust hardware, applying advanced control systems and machine learning principles (k-means classification and PCA- Principal Component Analysis) to develop a voice-activated autonomous vehicle

### **Action map SaaS**

Leveraged Agile methodologies to enhance the Action map platform with user-centric features, emphasizing BDD/TDD testing, unit testing, and peer-reviewed, optimized code for robust civic engagement

### **End-to-end Encrypted File Sharing System**

Created, debugged, and validated an encrypted file-sharing system, employing diverse encryption techniques to ensure confidentiality, integrity, and authentication

## CERTIFICATES

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**Generative AI with Large Language Models**

DeepLearning.ai + Coursera

Jun 2024

**Machine Learning Specialization**

Stanford University + DeepLearning.ai + Coursera

May 2024