

• Anthony Jude Clark •

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Technology Experience

Programming Languages: JavaScript, TypeScript, Python, SQL, Java, MATLAB, Bash

Frontend & UI: React.js, Next.js, Tailwind CSS, Bootstrap, Material UI, HTML5, CSS3, Streamlit

Backend & APIs: Node.js, Express.js, Flask, Supabase, REST APIs, Vercel Serverless Functions

Mapping & Geospatial Tools: MapLibre GL, Leaflet.js, GeoJSON, PostGIS

Machine Learning & Data Science: TensorFlow, PyTorch, XGBoost, Pandas, Scikit-learn, Amazon SageMaker

Databases & Data Engineering: PostgreSQL, MySQL, MongoDB, Cloudflare R2, CSV/ETL pipelines

Cloud Platforms & DevOps: AWS (EC2, S3), Firebase, Jenkins, GitHub Actions, Vercel, Netlify

Mobile Development & Deployment: Xcode, Android Studio, MDM provisioning, CI/CD pipelines, Expo

Tooling & Package Management: ESLint, Prettier, npm, Yarn, JSON, YAML

Work Experience

Software Engineer **Fortrea**, San Diego, CA

January 2021 - May 2025

- Led front-end development for 20+ clinical trial applications using JavaScript, HTML5, and CSS3, enhancing user experience and clinician satisfaction.
- Deployed HIPAA-compliant mobile apps via Xcode and Android Studio, used by thousands of participants globally.
- Owned MDM policy configuration and provisioning pipelines, increasing trial device deployment speed by 40%.
- Built 25+ reusable components and libraries, reducing development time by 30% across the org.
- Designed CI/CD pipelines using Jenkins and Firebase, cutting manual errors by 40% and speeding release cycles.

Web Application Developer **SnapIot**, San Diego, CA

June 2020 - January 2021

- Contributed to the rapid launch of COVID-19 clinical trial platforms, ensuring product readiness on tight timelines.
- Built high-performance apps using SnapClinical's Blockly scripting tools for simultaneous deployment across web, iOS, and Android.
- Maintained consistent delivery in remote Agile setting, collaborating with 5-person team using Jira and Bitbucket.
- Managed environment configurations and deployments via Jenkins; ensured source control via private Git repositories.

Product & Design Highlights

• **RealMap:** Designed and built a responsive web app for real estate data visualization using MapLibre, Tailwind CSS, and React. Prioritized mobile usability, clarity of UI, and intuitive filtering tools. [[Live Demo](#)] -v1.1

• **Clinical Trial App Interfaces:** Collaborated with clinical stakeholders to match Figma wireframes and streamline onboarding flows for HIPAA-compliant iOS/Android apps.

Education

San Diego State University, San Diego, CA

Graduated: **December 2019**

Management Information Systems – Bachelor of Science in Business Administration

University California of San Diego, San Diego, CA

Completed: **February 2025**

UC San Diego Extension Machine Learning Engineering Bootcamp Certification 2025 6-month intensive course in artificial intelligence and machine learning technologies and methods.

Capstone Project: Real Estate Price Prediction Tool: <https://github.com/TJC1996/RealMap>

- Designed and deployed a real estate pricing app using Python, XGBoost, and Streamlit to forecast home values in Monmouth County, NJ
- Built scalable ETL workflows for processing monthly property data exports (CSV) from 200,000 OPRS listings
- Integrated interactive map visualizations for user exploration of trends by location and date
- Achieved >90% accuracy on test data; currently building SaaS-ready version for public access