

Rabah Babaci

Oakland, CA | (510) 646-7743 | rabahbabaci@berkeley.edu | rabahbabaci.dev | github.com/rabahbabaci | linkedin.com/in/babaci

EDUCATION

University of California, Berkeley

Bachelor of Arts in Data Science | GPA: 4.0 / 4.0

Relevant Coursework: Data 100 (Principles & Techniques of Data Science), CYPLAN 101 (Urban Data Analytics), Data Product Management, Data Structures & Algorithms

Berkeley, CA

Expected May 2027

Laney College

Associate of Science in Data Science | GPA: 3.88 / 4.0

Oakland, CA

May 2025

Bloom Institute of Technology

Certificate in Full-Stack Web Development

San Francisco, CA

January 2021

PROJECTS

AirBridge — Airport Departure Optimization Engine

Feb 2026 – Present

- Built a departure-time optimization engine that computes personalized leave-home-by times using real-time flight data, traffic estimates, and TSA wait-time models across 10 airports.
- Developed Monte Carlo simulation backend in Python (FastAPI, PostgreSQL, Supabase) with three confidence profiles for risk-adjusted departure recommendations.
- Created a React frontend (Vite, Tailwind, shadcn/ui) with interactive trip planning, airport terminal walking distance calculations, and real-time status updates.

MTC Transit Access Equity — CYPLAN 101, UC Berkeley

Oct – Dec 2025

- Evaluated time-of-day transit accessibility in Alameda County for Equity Priority Communities, mentored by the Metropolitan Transportation Commission (MTC).
- Built geospatial data pipelines using Python, r5py, Census, and GTFS data to compute AM Peak vs. Late Night travel-time matrices and job accessibility gaps.
- Developed interactive isochrone visualizations and equity-focused metrics to support data-driven regional transportation planning decisions.

ListIQ — Resale Intelligence Engine (UC Berkeley Capstone)

Mar 2026 – Present

- Building a cross-platform resale intelligence engine that scrapes eBay, Poshmark, and Depop to aggregate pricing data and build sell-through prediction models.
- Developing price regression models and platform routing logic to recommend optimal listing strategies for resellers. UC Berkeley DATA 198 capstone built for Phia (team of 4).

WORK & LEADERSHIP EXPERIENCE

SMOOVE — Founder & Full-Stack Developer

Oakland, CA

Dec 2022 – Apr 2025

- Founded and operated a web-based moving platform enabling customers to book and manage moves online with transparent per-minute pricing and vehicle selection.
- Designed and deployed a full-stack production system using Next.js, Node.js, Firebase, Stripe, and Mapbox, processing live customer transactions over 2+ years.
- Built backend APIs for scheduling logic, dynamic pricing models, route optimization, and secure payment processing with automated booking workflows.
- Improved system functionality through iterative updates driven by user feedback and operational data analysis, increasing booking completion rates.

SKILLS, ACTIVITIES & INTERESTS

Languages: Fluent in Berber (Native), French, and Arabic.

Data Science & Analytics: Python, SQL, pandas, NumPy, GeoPandas, r5py, Jupyter, Matplotlib, Statistical Modeling, Monte Carlo Simulation.

Software Engineering: JavaScript, TypeScript, C, React, Next.js, Node.js, FastAPI, REST APIs, Git/GitHub, Data Structures & Algorithms.

Tools & Platforms: PostgreSQL, Supabase, Firebase, Stripe, Mapbox, Sanity CMS, Vercel, Figma.

Activities & Interests: UC Berkeley DATA 198 directed study; DeveloperWeek Global volunteer (IT Staff); AI applications, startup ecosystems, product innovation, scalable data systems, geospatial analytics.