OMAR **BAIG**

Software Engineer

I'm a curious, solution-oriented engineer with 6+ years of experience owning end-to-end delivery of software and data solutions. Passionate about improving sustainability through human-centered technology and decision making. Expertise in full-stack web development, data consulting, and research engineering.

WORK EXPERIENCE

Samsara, Atlanta, GA — *Software Engineer III, Growth*
February 2024 - Present

- **Delivered real-time syncing prediction API:** Lead development of two real-time logistic regression APIs to predict lead conversion. Oversaw design, infrastructure, deployment, maintenance, and monitoring. Involved cross-team collaboration and coordination with 3 teams.
- **Implemented user authentication:** Implemented token-based authentication, adhering to recommended security practices for client-side JavaScript applications.
- **Delivered Stakeholder Reporting Tools:** Implemented new events in lead ingestion processes which enabled stakeholder visibility into algorithm improvements and experiments.
- **Automated infrastructure pipelines:** Stood up automated infrastructure of migrated legacy and net-new web applications using Cloud Development Kit for Terraform which improved explainability, security, and stability of services deployed to the cloud.
- **Developed chrome extension:** Supported rewrite of a gift delivery chrome extension for sellers, integrating with marketing and gift delivery services.

Samsara, Atlanta, GA — *Software Engineer II, Growth*
July 2022 - February 2024

- **Streamlined lead ingestion:** Consolidated nineteen API endpoints into a unified endpoint for vendors and internal clients.
- **Resolved errors in business critical tool:** Isolated and resolved 100% of non-input related errors in a Salesforce bulk account/contact upload tool.
- **Developed product selection web application:** Built and maintained a full-stack Vue application for customers and sellers, integrating Salesforce with custom event-based workflows and over 85% test coverage.
- **Enhanced user authentication:** Implemented federated token-based authentication using Google Sign-In for Web and Salesforce to gate access to internal tools without a User database.
- **Optimized lead deduplication:** Conducted A/B testing to optimize lead deduplication for public sector accounts, implementing findings with statistically significant results and a 149% increase in accuracy on benchmark tests.

Guidehouse (formerly PwC Public Sector), Atlanta, GA — *Solutions Consultant, Advanced Analytics and Intelligent Automation, Health*
January 2021 - July 2022

- **Supported risk-based analytics:** Developed automation, ETL, and feature engineering for the Center for Medicare & Medicaid Kidney Care Choices Model in collaboration with multiple contracting firms.
- **Empowered business users:** Developed self-service "Stored Processes" for common data transformation tasks and lead Community of Practice meetings, reducing IT dependency.
- **Improved data quality:** Analyzed and remediated errors in user-entered

CONTACT

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SKILLS

Frontend
- Vue, React, Quasar, Storybook, PWA

Backend
- Python, Go, Java, C++, Spring, Node

Data
- SQL, Pandas, Excel, PowerBI, Tableau, GraphQL

Authentication
- Token-based authentication, Sign in with Google for Web

Infrastructure
- AWS, CDKTF, Terraform, Severless, Docker, Github Actions, Bash, DataDog

Tinkering
- Ruby on Rails, D3, Godot

health provider data workflows by validating against sources of truth.

- **Streamlined auditing:** Analyzed data models and applications for contract compliance and reporting across multiple teams.

Griffin & Strong P.C., Atlanta, GA — *Data Scientist*
May 2020 - January 2021

- **Reported disparity indices:** Conducted data collection, preparation, validation, and statistical testing for disparity indices in four municipalities. These indices support legally-defensible business inclusion programs and were never challenged in court.
- **Developed supervised classifier:** Led the development of a supervised classifier to address time-consuming and costly data labeling challenges.

Griffin & Strong P.C., Atlanta, GA — *Data Analyst*
November 2018 - May 2020

- **Translated research methodology:** Owned and led effort to translate antitrust research methodologies from legal experts into code while adapting the application to each organization's data system constraints.

EDUCATION

University of Georgia, Athens, GA— *Bachelor of Science, Computer Science*
May 2018
Cumulative GPA: 3.55 (Cum Laude)

PROJECTS

HootScrape — *A Slack bot which scrapes customer sites and gives a relevant sales pitch*
A hackathon project which was made in less than a week to enable sellers to look up a potential lead's information on core dimensions to the product being sold. These dimensions were flexible and could be swapped in for any product. ChatGPT was also leveraged after hydrating the prompt with scraped information, allowing the users to simply feed the Slack bot a URL for any website and get an initial cold call template.

Creative Constraints — *A web app to reduce menu diving when making music*
An app to solve a problem I had with creating initial projects to start making music. The API returns instrument options from the software Ableton, randomized with other suggestions to reduce decisions which pull you out of the creative process.

Student Data Management — *A full-stack CRUD app for managing records*
A web application for creating, updating, and deleting records related to students built with Spring, Java, Maven, React, and deployed to AWS through a CI/CD pipeline.

Equity Lib — *Open source library for data cleaning in Python*
An open source Python library containing pre and post-processing algorithms for wrangling common problem patterns in Excel files. The primary problem solved is resolving entities in joined data systems and traceability of rule based decisions.