BRODERICK BOUCHER

Software Engineer | Full Stack Development

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EXPERIENCE

Software Engineer, Full Stack Development | Decision Modeling Inc. | *New York, NY*   **Apr 2024 – Present**

AI-Powered Tax Document Parser

- Solely architected and developed a Python microservice that OCRs and parses current and legacy tax transcripts — including poorly scanned historical documents — achieving 92% extraction accuracy.
- Engineered a multi-stage AWS Step Functions pipeline for concurrently processing scanned documents of varying quality while managing LLM token limits across parallel executions.
- Integrated Google Cloud Vision OCR and Anthropic's Claude API for intelligent document parsing, designing targeted prompt strategies per transcript section to maximize extraction accuracy.
- Partnered with tax professionals to identify required information across multiple transcript types and designed code-first MySQL schemas with complex table relationships to handle overlapping codes between transcripts.
- **Tech Stack:** Python, C#, AWS (Step Functions, Lambda, EC2, SQS), Docker, Redis, ASP.NET Core, Angular, MySQL

Automated Document Filing & Compliance System

- Solely designed and built an internal document management system for forensics accountants that automated email monitoring across 10+ accounts, processing 1,000+ emails daily through configurable rule sets, saving accountants 4+ hours weekly.
- Developed intelligent rule-based classification engine that auto-categorized incoming emails and attachments by client, case, sender, recipient, keywords, and date ranges — with an ambiguity queue for manual review.
- Built bulk export, document import, inline preview, and Dropbox integration for client-facing document uploads and internal processing.
- Implemented retroactive rule application to backfill historical emails when new rules were created, and created a read-tracking system ensuring 100% document review compliance.
- **Tech Stack:** Python, FastAPI, Angular, MySQL, AWS EC2, Google APIs

Internal API Testing Tool

- Built and maintained a WinForms-based internal testing application that replaced manual Postman workflows with a structured UI for configuring, executing, and reviewing API test scenarios.
- Maintained the tool for 6 months through multiple API iterations, providing formatted and downloadable result views that eliminated manual JSON parsing for a team of 3.
- **Tech Stack:** C#, WinForms

Full Stack Developer | Softedge Technologies | *New York, NY*   **May 2023 – Aug 2023**

- Integrated Excel-based tax report logic into an application and built multi-tab Angular table views displaying parameters, filtered columns, and results — saving accountants an estimated 6,000 hours annually.
- Designed optimized SQL queries to process 4,000+ database entries totaling $750M, ensuring accurate and efficient report generation for Fortune 500 clients.
- **Tech Stack:** C#, ASP.NET, Angular, SQL

Front End Developer | Softedge Technologies | *New York, NY*   **Jun 2022 – Jan 2023**

- Built a report generation UI in Angular with supporting SQL queries and C# backend logic, eliminating external file dependencies and reducing user errors.
- Analyzed and documented 10,000 lines of legacy JavaScript code, successfully integrating its functionality into the modernized platform.
- **Tech Stack:** JavaScript, C#, ASP.NET, Angular, SQL

EDUCATION

Rensselaer Polytechnic Institute | Troy, NY   **May 2024**

B.S. Computer Science, Concentration in Systems and Software | GPA: 3.60

TECHNICAL SKILLS

Languages & Frameworks: Python, JavaScript, TypeScript, C#, Java, C++, SQL, Angular, React, ASP.NET Core, FastAPI

Tools & Methods: AWS (Lambda, Step Functions, EC2, SQS), Docker, Redis, Git, MySQL, Postman, Jira, Agile, CI/CD, REST APIs