

# BENJAMIN IMMERMAN

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Former Mechanical Engineer turned Software Developer with hands-on experience in React, Django, PostgreSQL, and cloud services. Skilled in building full-stack applications and cloud-based data pipelines, with a systems-thinking mindset and strong problem-solving skills.

## TECHNICAL SKILLS

Python, Django, RESTful API, JavaScript, TypeScript, React, SQL (PostgreSQL), AWS (Glue, Lambda, S3, RDS, Quicksight, Redshift, IAM, CloudWatch, EC2), GCP (Cloud Run, Cloud Storage, Pub/Sub, Compute Engine), Kubernetes, Terraform, Bitbucket, Bamboo, GitLab, Docker

## EXPERIENCE

**SAIC** – Software Engineer, New York, NY

**March 2025 – Present**

- Contributed to development effort of a RESTful API using Django REST Framework to automate the ingestion of scanned tax documents as part of IRS modernization efforts, reducing manual data entry and decreasing human effort by an estimated 70%.
- Leveraged Python to send scanned tax documents from Cloud Storage buckets to specific parsers in Document AI for further data extraction.
- Collaborated within a fast-paced Agile team to design, develop, and deploy backend features using Django, and documented RESTful APIs using Swagger OpenAPI; actively participated in sprint planning and daily standups to ensure delivery of high-priority functionality on schedule, accelerating development cycles by 30%.

**Guidehouse** – Software Engineer, New York, NY

**March 2024 – February 2025**

- Developed an ETL pipeline for the Library of Congress to automate and simplify data ingestion, using AWS Lambda, S3, and Glue with Python.
- Created a PostgreSQL database utilizing AWS RDS to minimize client overhead of managing database infrastructure and provide high availability and security for sensitive federal employee data.
- Transformed and cleaned data into a structured PostgreSQL database, simplifying access and streamlining utilization for the client's teams.
- Contributed to custom reusable Python modules designed for AWS Lambda and Glue services reducing development efforts by 30%.
- Designed an event-driven AWS solution that automated HR data updates, saving ~20 hours of manual data entry per week (0.5 FTE).
  - Created event-based AWS Lambda functions in Python (Pandas and Numpy) triggered by file uploads to S3 buckets.
  - Validated input data against client-specified formats, ensuring accurate field mapping to an RDS database and initiating a Python-based AWS Glue job for data processing.
  - Developed an AWS Glue job in Python to perform data validation and cleansing, and data loading into an AWS RDS database.
  - Monitored metrics and logs of workflow infrastructure in AWS CloudWatch for error tracking.
  - Managed IAM roles and permissions to give services minimum amount of access to each other and be able to perform all processes.
- Built a responsive front-end application with React for the National Institutes of Health (NIH) used for new employee onboarding.
- Led stakeholder meetings and provided hands-on training to ensure successful handoff of tools and solutions.

**Ecosystem** – Mechanical Designer, New York, NY

**August 2020 – February 2024**

- Applied mathematical modeling to design, optimize, and draft systems using AutoCAD and Revit software.

**BE3** – Mechanical Engineering Associate, Austin, TX

**September 2019 – August 2020**

- Utilized AutoCAD and Revit software to develop data-driven designs for mechanical systems.

## PROJECTS

**Trackly** – Progressive Web Application (PWA) hosted on Render. Responsive web app that allows users to create, manage, and update task lists.

- Backend API developed using Django REST Framework (Backend – [GitHub](#)), supporting full CRUD operations (GET, POST, PUT, and DELETE) and leveraging a PostgreSQL database. Created API documentation using Swagger OpenAPI.
- UI (Frontend – [GitHub](#)) developed using React, Vite and Tailwind CSS with state management handled using Redux.
- Implemented user authentication, account creation, and session management with JWT tokens.
- Features include creating new/deleting existing lists, adding/modifying/deleting list items, and toggling completion status.

## EDUCATION & CERTIFICATIONS

Georgia Institute of Technology - Atlanta, GA B.S in Mechanical Engineering

**August 2019**

WeCloudData - Data Engineering Bootcamp

**September 2022 – March 2023**

AWS Certified Developer - Associate

**November 2024**