

Jacob Good

Software Engineer | [Personal Website](#) | [LinkedIn](#) | 302-522-7452 | jacobegood@gmail.com

WORK EXPERIENCE

SDI, Inc

Senior Software Engineer

Remote | Bristol, PA

October 2022 - Present

- **Data Engineering:** Managed end-to-end ETL pipelines, leveraging Snowflake for schema-based data storage, and automated workflows to save 15+ hours weekly.
- **AI/ML:** Built AI Agents to analyze 100+ undocumented applications, automatically generating README documentation, identifying core functions, mapping SQL dependencies, uploading changes to Github, and recommending areas for enhancement. This saved our development team over 100 hours of manual effort.
- **Search Engine Architecture:** Revamped search engine architecture with Solr, eliminating downtime, boosting efficiency, and dramatically improving search accuracy. Led a team in developing advanced indexing, querying, and type-ahead features, rescuing a key client from leaving by delivering faster, more precise results.
- **Leadership & API Development:** Was a main contributor to a team in the technical design and refinement of RESTful APIs using Python, Mulesoft, and JavaScript, ensuring scalable and high-performance applications. Designed, built and scaled APIs that support real-time pricing and catalog updates, integrating client APIs into enterprise infrastructure.
- **Performance Optimization:** Achieved a 75% increase in data ingestion efficiency, handling millions of daily records.
- **Distributed Services:** Built an internal React-based tool to test and enhance Solr search algorithms, reducing noise and improving purchase funnel efficiency.
- **AWS & Cloud Services:** Applied AWS solutions in real-world scenarios, including managing EC2 instances, optimizing data workflows, and ensuring system reliability through cloud-native practices.
- **Full-Stack Experience:** Developed client-facing and internal tools using React, Django, Flask, and other backend frameworks to enhance search accuracy by 25%, automate Excel processing for hundreds of thousands of parts, and streamline the sending of thousands of emails.

100 Devs

Software Engineer

Remote | Los Angeles, CA

January 2022 - January 2023

- **REST API Design:** Designed and implemented RESTful APIs using JavaScript (Node.js, Express) and Python (Django REST, Flask, FastAPI), enabling dynamic content delivery.
- **Scalable Web Applications:** Collaborated to build high-quality, responsive applications focused on performance optimization with a focus on Vanilla JS and frameworks like React and Flask.
- **Troubleshooting & Debugging:** Resolved technical challenges to improve page loading speeds for high-scale web applications.

Goody's Web Dev

Web Developer, Data Analyst, Technical Writer

Remote

December 2018 - Present

- **Data Analysis:** Used Python libraries (Pandas, Numpy) to present neighborhood analysis reports for business clients.
- **REST API Design:** Architected and built RESTful APIs to streamline data integration and enhance functionality.
- **Web Development:** Created SEO-focused, responsive web applications with HTML, CSS, JS, and frameworks.
- **Technical Writing:** Authored articles on advanced web development practices, including React, Node.js integration with Twilio, Python web scraping and API Architecture

Weiming International School

Academic Director, Coding Teacher, and Business Teacher

China

September 2013 - June 2022

- Developed Python, HTML, CSS, and JavaScript courses. Led a team of 25 teachers to complete global competence training in association with Harvard College of Education.

SKILLS

Programming Languages (Python, Javascript, SQL, HTML, CSS, Go, Java, C, Git)

Databases (Oracle, MySQL, Snowflake, MongoDB)

Frameworks (FastAPI, React, Node.js, Express.js, Django, Flask, Bootstrap, TailwindCSS, HTMX)

Tools/Technologies (SQLAlchemy, Linux, MuleSoft, Apache Solr, REST/SOAP API, Github, AWS, Communication, Collaboration)

Data Science (Pandas, Numpy, Tensorflow, Pytorch, Data Visualization, Scikit-learn)

CERTIFICATIONS and EDUCATION

Machine Learning and Python for Data and AI - 2021

Google Data Analyst - 2021

IBM Data Science - 2021

IBM Cloud Applications - 2021

Masters in Education in Curriculum and Instruction, American College of Education, 2015 - 2017

Bachelor of Education in Biology, West Chester University of Pennsylvania, 2006 - 2010