Matt Worby

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Summary/Professional Profile

I am a dedicated software engineer with a strong passion for prompt engineering and building robust software solutions. I write clear, concise code to solve real-world problems. I quickly adapt to new work environments and code bases, always ready to learn new tools and techniques. I thrive in team settings and value open communication. I focus on delivering reliable, user-friendly software that truly meets needs and drives lasting results.

Skills

Software Engineering:

- JavaScript (Vue, TypeScript, Node, Express)
- Python (Django, FastAPI)
- HTML
- CSS
- Batch
- Java
- Cloud Computing (AWS, Azure)
- Agile Methodologies
- DevOps
- Selenium Testing
- Unit Testing

Prompt Engineering:

- Prompt Design
- Prompt Tuning
- Chain-of-Thought Prompting
- Adaptive Prompting
- Iterative Prompting

Other Skills:

- Highly Adaptive to New Environments
- Data Analysis
- Problem-Solving

Experience

Senior Software Engineer | Lumeris, Inc | August 2021 - Current

- Wrote, maintained, and debugged system prompts for conversational AI using prompt engineering techniques
- Collaborated with stakeholders and product owners to gather requirements and iterate on feedback
- Applied methods like **iterative prompting** and prompt tuning to improve AI conversations.
- Developed internal web solutions with **ReactJS** and **FastAPI**
- Leveraged **Claude Sonnet** and software best practices to deliver quality code
- Contributed to code bases in **Python**, **Java**, **Vue.js**, **Node.js**, **MySQL**, and **Selenium**
- Developed a full-stack Django application with **Python**, **JavaScript**, **HTML**, **CSS**, and **MySQL**
- Managed Apache **Airflow DAGs** using Python for automation
- Deployed NestJS apps with remote repositories on **Azure DevOps**
- Leveraged AWS services (**Lambda**, **CloudWatch**, **S3**, **DynamoDB**, **SQS**, **RDS**, **Step Functions**) and debugged issues via **CloudWatch** logs
- Used **Bitbucket** and **Git** for version control and **Docker** for containerization
- Worked with multiple IDEs including **VSCode**, **PyCharm**, **MySQL Workbench**, **DBeaver**, and **Spring Tool** Suite
- Built **smoke**, **Selenium** UI, and **unit tests** while providing QA support
- Assisted in customer service to resolve end-user issues

Data Analyst | Applied Systems | 2018 - 2021

- Validated and cleaned client data with **MSSQL** while adding customizations
- Updated and created **SQL** scripts to improve conversion processes
- Developed internal tools (**HTML**, **CSS**, **JavaScript**, **VBScript**, **Batch**) for **ETL** conversions from legacy systems to Applied Software
- Collaborated with internal and external clients to gather requirements
- Ensured **quality assurance** for each conversion using documentation
- Coordinated with the development team to resolve bugs and maintain application quality

Programmer I | Kankakee Community College | 2016 - 2018

- Collected and reported data using **Ellucian**
- Validated and updated data with **MSSQL** while resolving help desk tickets
- Fixed software errors using Colleague Studio's **SQL-like** language
- Reported student and faculty data to the **ICCB**
- Collaborated with departments to maintain data integrity

Selected Projects

Portfolio Website (Current)

- I'm building a website that creatively blends my programming skills with modern AI tools. I use the free versions of Claude Sonnet, ChatGPT, and Gemini 2.0 to keep costs low, switching among them to achieve the best results. This project not only shows my coding abilities but also highlights my creative approach and knack for working with AI to solve real problems.

Equation Calculator (2013-2015)

- During my Freshman year of college, I built an Android app to dive into programming. I wrote the main code in Java and used XML to design the interface. The app included hundreds of formulas and equations in various math and science fields and was downloaded by several thousand users before it was sunset. I also handled regular bug fixes and updates using Android Studio.

Education

Computer Science | Southern Illinois University of Carbondale | 2016

Business Administration: Minor | Southern Illinois University of Carbondale | 2016