Matt Worby

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Summary/Professional Profile

Dedicated software engineer with a strong passion for prompt engineering and developing robust software solutions. Writes clear, concise code to solve real-world challenges while quickly adapting to new work environments and code bases. Constantly seeks to learn new tools and techniques, thriving in team settings with a commitment to open communication. Focused on delivering reliable, user-friendly software that effectively meets needs and drives lasting results.

Experience

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

- Writing, maintaining, and debugging system prompts for conversational AI using prompt engineering techniques
- Collaborating with stakeholders and product owners to gather requirements and iterate on feedback
- Applying methods like **iterative prompting** and prompt tuning to improve AI conversations.
- Developing internal web solutions with **ReactJS** and **FastAPI**
- Leveraging **Claude Sonnet** and software best practices to deliver quality code
- Contributing 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**

Technical Skills

- **Languages:** JavaScript, Python, Java, HTML, CSS, Batch
- **Frameworks & Tools:** NodeJS, TypeScript, Vue, Express, FastAPI, Django, Docker, Git
- **Databases:** MySQL, TSQL, Redshift, DynamoDB, Post
- **Cloud Computing:** AWS, Azure DevOps
- **Concepts:** Unit Testing, Selenium Testing, Agile Methodologies,
- **Technical Proficiencies:** Debugging Tech Stacks, Load Balancing, Application Scalability
- **Problem Solving:** Highly Adaptive to New Environments and Codebases
- **Prompt Engineering:** Prompt Design, Prompt Tuning, Chain-of-Thought Prompting, Adaptive Prompting, Iterative Prompting

Select Projects

Portfolio Website (Current)

- Building a website that creatively blends advanced programming skills with modern AI tools. Free versions of Claude Sonnet, ChatGPT, and Gemini 2.0 are leveraged to minimize costs while achieving optimal results. The project demonstrates strong coding abilities, a creative approach, and an aptitude for applying AI to solve real-world challenges.

Equation Calculator (2013-2015)

- During freshman year of college, developed an Android application to explore programming. Implemented the main code using Java and designed the interface with XML. The application featured hundreds of formulas and equations across various math and science fields, attracting several thousand downloads before being discontinued. Also managed routine bug fixes and updates using Android Studio.

Education

Computer Science | Bachelor of Arts | Southern Illinois University of Carbondale | 2016

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