

Raymond Thurman

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PROFESSIONAL SUMMARY

As a seasoned software developer and accomplished team leader, I excel in full-stack web development, project management, and team leadership. I have a proven track record of delivering high-quality, scalable applications using cutting-edge web technologies in dynamic, fast-paced environments.

Technical Skills

Programming Languages: Python, JavaScript, TypeScript, SQL, C#, HTML, CSS

Frameworks & Libraries: Django, Flask, FastAPI, Node.js, React, Next.js, Redux

Databases: PostgreSQL, MySQL, MongoDB, DynamoDB, Sanity CMS

Geospatial Technologies: ArcPy, GDAL, GeoPandas, QGIS

AI & Data Science: Machine Learning, Natural Language Processing, AI Model Training

PROFESSIONAL EXPERIENCE

GIS Software Engineer, Xcellent Technology Solutions (Aug 2024 - Present)

- Contributed to the successful conversion of two major 3DHP datasets, leading to the publication of over 100,000 flowlines into the National Hydrography Dataset (NHD).
- Developed and maintained Python-based geospatial tools leveraging GDAL, ArcPy, and GeoPandas to streamline the validation and integration of hydrographic data.
- Improved data processing pipelines by implementing efficient error handling and quality assurance methods, ensuring high-accuracy hydrologic models.
- Collaborated with USGS hydrologists and GIS specialists to bridge the gap between scientific research and practical software solutions.
- Designed and executed scalable automation scripts to enhance the efficiency of hydrologic data transformation, reducing manual intervention and processing time.

AI Training Expert, ScaleAI (March 2024 - July 2024)

- Trained and optimized AI models to enhance data annotation accuracy and efficiency.
- Developed and implemented quality control measures to ensure high standards of AI model performance.
- Collaborated with cross-functional teams to integrate AI solutions into client workflows, improving overall productivity by 15%.
- Utilized Python and various machine learning frameworks to develop and refine training algorithms.
- Provided expert guidance on best practices for AI model training and deployment, contributing to successful project completions and client satisfaction.

Freelance Developer, Ravenwood Software (June 2020 - Present)

- Implemented performance optimizations and security enhancements, ensuring long-term viability and reliability of client websites.
- Successfully delivered numerous projects by closely collaborating with clients to meet their unique needs and objectives.

Lead CMS Developer, Community Ventures (Jan 2021 - Feb 2024)

- Spearheaded comprehensive redevelopment of the housing counseling CMS using Django, transitioning from a low-code platform for better scalability.
- Created efficient ETL pipelines to optimize agency onboarding processes, facilitating smooth migration of critical data to the mPact Pro platform.
- Collaborated closely with the project manager as the primary developer, implementing new features and enhancements within the mPact Pro CMS.
- Designed and developed resilient backend business objects using SQL, driving the interactive and user-centric front-end pages of the CMS.

Service Coordinator, Whayne Supply Company (April 2016 - June 2020)

- Developed a dashboard to track technicians and their assigned jobs within the shop.
- Assisted the service manager with essential functions, including opening and closing work orders, customer relations, and job quotes.
- Leveraged troubleshooting knowledge to support customers with repairs and problem resolution.

Section Leader, Lambda School (May 2019 - August 2019)

- Provided guidance and mentorship to a class of 140 students on a daily basis.
- Lead 14 Project Managers and ensured they are completing their daily tasks.
- Used Agile Methodologies on a day to day basis in our development workflows.
- Performed weekly code review to check for bugs and completion of student projects.
- Worked with Lambda staff and instructors on a day to day basis.

Multiple Launch Rocket Systems Crewmember, US Army (August 2008 - October 2015)

- Served in three Non-Commissioned Officer (NCO) positions simultaneously as a newly enlisted junior Soldier; Nuclear, Biological, and Chemical NCO, Training Room NCO, Multiple Launch Rocket System Gunner.
 - Served as a Platoon Sergeant leading 16 soldiers as well as Rear Detachment First Sergeant leading 21 soldiers during our units' deployment.
 - Recognized as a highly skilled and effective small arms professional with the ability to perform under diverse conditions and environments.
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PROJECTS

GIS Playground (January 2025 - Present)

- Developed a web-based GIS application that integrates multiple spatial data sources, providing real-time visualization and analysis tools.
- Implemented dynamic mapping features using Leaflet and OpenLayers, allowing users to explore geospatial datasets interactively.
- Integrated real-time wildfire data and state boundaries, enhancing spatial analysis capabilities.
- Added functionality for uploading and processing shapefiles and CSV files, allowing users to visualize custom geospatial data.
- Implemented AI-assisted spatial analysis features using NLTK and scikit-learn for geospatial insights.

Outernet Broadband (June 2016 - Present)

- Developed a landing page for an internet service provider, transitioning from Wix to a dynamic HTML/CSS/JavaScript site.
- Enabled clients to manage their subscriptions and customer data through the Sanity CMS backend.
- Collaborated directly with customers to address web requirements and assist with email forwarding setup using ImprovMX and Netlify.

Pixelhub Entertainment (March 2020 - Present)

- Successfully launched an engaging and monetizable blog application, enhancing the client's online presence.
- Improved user engagement and content management through the implementation of a robust CMS.
- Increased revenue potential for the client by integrating targeted advertising.

Ravenwood AI (October 2023 - August 2024)

- Developed Ravenwood AI, a personal AI assistant web application mimicking core functionalities of ChatGPT.
- Enabled natural language conversations with artificial intelligence, incorporating multiple AI engines like Claude and OpenAI.

- Integrated DALL-E 3 for generating images from text prompts.
 - Implemented persistent user accounts for saving chat history and managing access controls.
 - Gained hands-on experience in training dialogue models for intelligent conversations.
 - Demonstrated technical proficiency in state-of-the-art natural language processing.
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EDUCATION

- Bachelor of Science in Computer Science, Indiana University, 2020
- Lambda School, Full Stack Web Development/Computer Science, 2019
- Advanced Leadership Course, US Army, 2014
- Warrior Leadership Course, US Army, 2010
- Diploma, North Harrison High School, Ramsey IN, December 2006