Shaun Thomas

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EDUCATION

California Baptist University — Riverside, CA
Bachelor of Science in Computer Science — *Sep. 2022 – April 2026*

EXPERIENCE

Data Engineering Research Assistant, CAiMLL — April 2024 – Present
California Baptist University — *Riverside, CA*

- Designed and implemented serverless REST APIs using Azure Functions to support data processing
- Implemented ETL workflows in Azure Data Factory to process website text and output standardized JSON
- Automated large-scale data extraction by developing web scrapers in Python with Selenium and BeautifulSoup
- Integrated OpenAI language models into data pipelines to automate the formatting and normalization of raw datasets

Software Engineering Intern — May 2025 – Aug. 2025
NSWC Corona — *Norco, CA*

- Developed bullet detection scoring system utilizing YOLOv8 model and WPF .NET framework
- Increased YOLOv8 F1 score from roughly 0.50 to 0.97 through automated hyperparameter tuning
- Designed UI/UX layout for WPF project through Figma and implemented design with XAML
- Converted existing WPF codebase into Model View ViewModel (MVVM) architecture

Software Engineering Intern — May 2023 – Aug. 2023
4insite LLC — *McClellan, CA*

- Gained exposure to professional software development practices, including code reviews and version control with Bitbucket
- Built a static webpage using HTML and CSS, applying front-end fundamentals in a real project setting
- Performed manual data validation by reviewing calculations for accuracy and consistency

PROJECTS

PokéCompanion | *React, JavaScript, Python, MongoDB, Firebase Functions, OpenAI* — April 2025 – Aug. 2025

- Developed a custom Pokédex shell application in React, implementing modular components for interactive UI
- Built Python web scrapers to collect Pokémon data and store it in MongoDB for structured access
- Integrated OpenAI APIs to enable conversational chatbot functionality within the project
- Implemented JavaScript Firebase Functions to query MongoDB and OpenAI LLM for visual data

TECHNICAL SKILLS

Languages: Python, JavaScript, HTML, CSS, Java, C++, C#
Frameworks: React.js, Node.js, .NET, FastAPI
Developer Tools: Git, GitHub/GitLab, VS Code, IntelliJ, Azure, Firebase, Postman, Jira, Figma