Benjamin Orrvick
Software Developer
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WORK EXPERIENCE

Computer Enterprises Inc, Pittsburgh, PA

Developer II (2024-Present) I Developer I (2023-2024) I Associate Developer (2022-2023)

- Design, build, and maintain web-based multilingual solutions for a billion-dollar international healthcare client in an agile environment, leveraging technologies such as Sitecore CMS, .NET frameworks, virtual machines, cloud services, Docker, and AI, and applying object-oriented and DevOps principles to equip clients with informed decision-making, leading to significant reductions in billable hours and budget expenditures.
- Design, build, and maintain a web scraper that integrates client data into an Azure index to enhance an Azure-powered OpenAI Healthbot, a process replicated with Bing Custom Search in collaboration with Microsoft's team as part of an exclusive preview, utilizing technologies such as OpenAI LLM (GPT-3.5 Turbo and GPT-4o models), Semantic Ranking, Vectorization/Embedding Creations (text-embedding-ada-002 model), Vector Database, Hybrid Search, BM25 Ranked Result, HNSW, Reciprocal Rank Fusion, and a Custom Index with enhanced skills data, and employing Retrieval Augmented Generation (RAG) for improved results.
- Design and build an Azure OpenAI-based content creation application that streamlined authors' workflows, fostered content generation, seamless citation of sources, and creativity through unique ideas from diverse language models, ensuring security via Azure API Management (APIM) and Single Sign-On (SSO) on Azure App Services.
- Redesign and build client's web-based search service utilizing the Coveo search engine, indexed data from the Kyruus API to display custom provider image cards as search results, promoted provider discovery based on related search terms, introduced a unique facet using GDPR-compliant Azure Geolocations to refine facets and sort orders, and ensured robust security through deployment via Azure API Management (APIM), thereby empowering users to list providers based on proximity.

PERSONAL PROJECTS

MusicMonolith, Pittsburgh, PA,

Full Stack Developer (2022)

- Design, build, and maintain web based marketing application using Spotify's RESTful API to serve data to a Python/Django back-end depending on the dynamic user provided input.
- Design and create a graphical user interface using customized icons, fonts and displays that represent company brand using tools such as Affinity Designer, JavaScript, HTML, CSS, jQuery and Bootstrap.
- Test and monitor code/site performance using tools such as Lighthouse and Flake8 before deploying/pushing changes to Heroku using Git.
- Ensure application security using environment variables, CSRF protection, and SSL.
- Create and maintain PostgreSQL and SQLite databases to perform ETL jobs utilizing AWS S3 buckets to store and serve various static and media files.

CERTIFICATIONS

Microsoft Cloud Certification, Microsoft AI Certification, Sitecore Developer Certification, Coveo Developer Certification

SKILLS

Frontend: React, Django, Angular, Typescript, Less/SASS CSS, Bootstrap
Backend: ASP.NET Core, .NET 4.8/Core, MVC, Entity Framework
DevOps & Version Control: Azure DevOps, Jira, Heroku
Cloud & Deployment: Azure, AWS, Octopus, Docker, Kubernetes
CMS: Sitecore (pipelines, layout service, XSA), Coveo for Sitecore
Server Management: Windows subsystem for Linux, Windows Server, Royal TS, Remote Desktop, Splunk
Search Technologies: Coveo, Solr, Azure AI Search, Bing Custom Search
Testing & Monitoring: BrowserStack, ObservePoint, Selenium
AI & ML: Azure AI Services, Azure OpenAI, Azure Chatbot/Healthbot
Data Processing & Algorithms: OCR, Semantic search, Vectorization, Embeddings, Search filters, Sorting
Database Management: SQL Server, SQLite, PostgreSQL, NoSQL

EDUCATION

Clarion University of Pennsylvania, Clarion, PA

Bachelor of Science in Information Systems and Business Administration, *summa cum laude*, May 2020