

PANDELIS D. MARGARONIS

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EDUCATION

Hamilton College

B.A. Computer Science, Mathematics minor (Student-Athlete)

Clinton, NY

August 2021 – May 2025

- **Relevant Courses:** Design Principles, Principles of Programming Languages, Algorithms and Data Structures, Computer Organization and Assembly Language, Advanced Algorithms, Developing Accessible UI, Calculus III, Linear Algebra, Statistical Analysis of Data, Statistical Modeling and Applications, Intro to ML, Probability and Statistical Inference.

EXPERIENCE

DXC Technology

Technical Intern, Insurance Software and BPS

Bethesda, MD

June 2023 – August 2023

- Architected and maintained a 30+ table PostgreSQL database with >99% uptime hosted on AWS (EC2, RDS) for future scalability
- Developed and optimized over 20 Python scripts for diverse tasks, including data import/export, cleansing, and testing, leveraging Pandas and NumPy libraries for efficient data manipulation.
- Automated data processes using batch scripts and PgAgent Jobs, handling database file uploads of up to 10 million records within minutes, ensuring seamless data cleansing, import, export, and testing
- Implemented Agile methodologies to enhance team collaboration and productivity, actively participating in daily scrum meetings and successfully completing five sprints
- Transformed the life insurance policy conversion process, designing a scalable, secure, and adaptable solution that will be deployed across DXC's Insurance Service Line, optimizing costs and reducing process duration by over 500%

Skills: Amazon Web Services (AWS), PostgreSQL, PgAdmin4, Python, Multithreading, Batch Scripting, Jira, Agile

US Food and Drug Administration (FDA)

Business Process Automation Intern

Silver Spring, MD

May 2022 – August 2022

- Independently developed 3 apps to automate business processes within the office, utilizing Microsoft Power Apps and Power Automate software, as well as HTML and CSS
- Achieved a 5x increase in task execution efficiency through fully automated workflows, saving employees 2+ hours per week from previously redundant tasks, resulting in the implementation of these applications in the office's day-to-day operations

Skills: Microsoft Power Platform, Power Automate, UI/UX, App Design, Microsoft Access, Sharepoint, HTML, CSS

SKILLS

Fluent: Python, C++, x86 Assembly, R/R-studio, SQL/PostgreSQL, HTML/CSS, Git, Agile

Familiar: Amazon Web Services, React, Bootstrap, Swift/XCode, JavaScript, CLI, Trello/Jira, Docker, FastAPI, Langchain

Languages: English (native), Greek (native), Spanish (intermediate), Italian (intermediate)

PROJECTS

Retrieval Augmented Generation (RAG) AI Application

- Built an AI web application leveraging Python and Langchain for Retrieval Augmented Generation (RAG). Utilized AWS Bedrock and the Ollama Mistral 7B parameter model, along with ChromaDB as the vector database. Used React.js for the frontend, Python and FastAPI for the backend, and deployed with Docker and AWS.

Skills: Python, Langchain, RAG AI, ChromaDB, React.js, FastAPI, Docker, AWS (IAM, S3, Bedrock, EBS, SDK, CLI)

AI Text Analysis Tool

- Automated extraction, processing, and summarization of messages from iMessage chats using Python and OpenAI's GPT-3.5 Turbo API. Working on implementing this within a web app and sending automated emails weekly containing results.

Skills: Python (data processing and API integration), Pandas (data manipulation and analysis), OpenAI GPT-3.5 Turbo API (NLP)

Internship Web-Scraper Tool

- Developed a Python program with Google Cloud's Sheets API to scrape and update a spreadsheet with internship listings, while sending automated notifications upon new changes, ultimately saving me 3-5 hours per week. The tool was adopted by over 20 classmates, and different versions were built for my soccer teammates in other disciplines.

Skills: Python, Google Cloud Platform's Google Sheets API

ACTIVITIES & LEADERSHIP

Hamilton College Varsity Men's Soccer

Three-year Captain, Team MVP 2022, All-Region First Team Selection, All-Academic Athlete

Clinton, NY

August 2021 – Present

AppDev at Hamilton

Member, E-Board

Clinton, NY

December 2023 – Present

Hamilton COOP - Volunteering

Representative for Men's Soccer Team

Clinton, NY

August 2023 – Present