Matthew A. Cordaro

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github.com/matthewcordaro

Experienced software engineer with expertise in Python, JavaScript, and cloud technologies. After a brief hiatus to care for a family member and pursue personal development, I am eager to leverage my skills in innovative software engineering projects.

Education

STONY BROOK UNIVERSITY — *Stony Brook, NY*

MBA, Spec. in Innovation — Dec. 2019

M.S. in Computer Science — Dec. 2013

B.S. in Computer Science, Spec. in Information Assurance — May 2012

B.S. in Applied Math & Statistics — May 2012

Skills

Languages	Python, JavaScript, C#, PHP, SQL (MySQL), Java, Bash, PowerShell
Cloud & Dev Ops	AWS, Linux, GitHub, GitLab, OpenStack, Azure
Frameworks & Tools	Next.js, Docker, Flask, .NET, LLMs, Laravel, Pandas, NumPy, Matplotlib, PowerBI
Hardware	Raspberry Pi, Arduino, Embedded Systems (Eurotech Helios, GPS, NFC readers)

Experience

Professional Development & Career Break — Current

Completed Next.js course and built matthewcordaro.com in Next, hosted on AWS Amplify.

Build and shipped EasyAudioToggle a .NET 8 application, showcasing expertise in modern .NET development.

Took time to support a family member while advancing technical skills through self-study and projects.

Exploring Deno and React; created OpenSCAD 3D models on GitHub.

THOTH — *Remote*

Data Science Python and PowerBI Teacher — Oct. 2022 to June 2023

Developed and taught Python curriculum, spanning data structures, algorithms, and libraries (Pandas, Matplotlib, NumPy) for cleaning, analyzing, and visualizing complex real-world data from Kaggle datasets.

Created PowerBI training focused on building dashboards and leveraging advanced features for data insights.

Instructed SQL and MySQL for database querying and integration with Python and PowerBI workflows.

Designed hands-on coding exercises and supported student projects to apply data science techniques.

Coasters Inc. — *East Meadow, NY*

Manager — March 2020 to Sept. 2022

Maintained IT infrastructure, including POS systems, computers, and internet for a family-owned small business.

Led a team of 10 employees, overseeing scheduling, onboarding, conflict resolution, and a temporary delivery pivot during COVID-19 lockdowns.

Managed payroll processes, payments to distributors and optimized inventory tracking.

Launched a static online presence via a third-party platform and drove digital marketing through Facebook/Instagram ads, boosting weekly traffic by 10-20 customers.

Center of Excellence in Wireless Information Technology (CEWIT) — *Stony Brook, NY*

Senior Lead Software Engineer & Project Manager — Jan. 2014 to July 2019

Led development of the Stony Brook Smart Transit System (mobile apps, websites, embedded systems, etc.), serving over 40k users with real-time transit and emergency tracking.

Led the lift-and-shift of on-premise software to AWS and OpenStack cloud environments with zero downtime, pioneering legacy application migrations to modern cloud infrastructure.

Designed and oversaw student projects, including a Conference Management and Ticketing System (React, React Native), providing technical direction and mentorship.

Developed cloud-based serverless functions in Python and JavaScript for APIs, server monitoring, report generation, and automated Slack, SMS, and email communications.

Architected, developed, and migrated websites and servers into cloud infrastructure (AWS, Azure, OpenStack) for New York State Department of Health, Center for Health Workforce Studies, and SBU Division, leveraging Flask and Laravel.

Championed Hack@CEWIT, an annual Major League Hacking hackathon, opening opportunities for students worldwide to collaborate with industry sponsors.

Administered GitLab, OpenStack, Linux, SuiteCRM, Communigate, and Tableau servers, ensuring operational stability and scalability.

Designed and developed the CEWIT Mobile app (Android) in Java to promote CEWIT's projects, researchers, and incubator companies, later supervising students on the CEWIT Music app for Android.

Consulted for incubator companies, researchers, and third parties, offering expertise in cloud, software, and systems design.

Designed "Whiteboard," an Azure-based clinical system for Northwell Health Cancer Institute's Radiation Medicine, optimizing oncology workflows with exposure to Elekta MOSAIQ and Varian Aria.

Stony Brook Smart Transit Information System — *Stony Brook, NY*

Embedded Systems Research Assistant — May 2012 to Dec. 2013

Developed and maintained Python, Shell, and Expect scripts for embedded systems on transit vehicles, integrating Eurotech Helios Wind River Linux controllers, passenger counters, GPS units, and HID ProxPro NFC readers to enable real-time tracking and access.

Designed, evaluated, and maintained hardware components, including Raspberry Pi integrations.

Trained Smart Transit team members on system operations and scripting, fostering team proficiency.

Managed MySQL database for transit data storage and retrieval, optimizing operational workflows.

Provided technical support and help desk assistance to transportation staff and end users, resolving hardware and software issues.

Created and managed MediaWiki-based documentation to streamline project knowledge sharing.

References and CV available on request