

# Carlos Hernandez

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## EDUCATION

**Georgia Institute of Technology** | Atlanta, GA

Aug. 2020 – May. 2024

Bachelor of Science in Computer Science, GPA 4.0/4.0

**Coursework:** Data Structures & Algorithms, Object-Oriented Programming, Machine Learning, Computer Networking

## EXPERIENCE

**DevOps Intern** | Honeywell | Atlanta, GA

Summer 2023

Automated Credential Management for Catchpoint

- Developed an Azure Runbook to automate credential updates in Catchpoint securely via REST API, storing in an Azure Key Vault for auditing purposes, and sending email notifications for success or failure.
- Collaborated with the Logging & Monitoring team to understand requirements for the notification system and the Site Reliability Engineering team to integrate the automation into existing workflows.
- Improved operational efficiency by eliminating ~8 hours of manual work each month across 30-40 password requests, enhancing monitoring reliability by reducing false alerts and ensuring credential synchronization across systems.

End-to-End VM Deployment Automation

- Led a team of four interns to design and implement a fully automated virtual machine provisioning system using Python, REST APIs and GitHub Actions, integrating with ServiceNow to provision virtual infrastructure.
- Worked with the Product Hosting Enablement team to understand their VMware virtual infrastructure managed through vCloud Director, ensuring the automation aligned with their environment and operational requirements.
- Automated the full deployment pipeline, reducing provisioning time from 1.25 hours to 20 minutes—cutting 2,500+ annual requests from ~3,500 hours to ~850 hours and saving an estimated of \$120,000 per year.

**Computer Technician** | eBryIT Inc. | Kennesaw, GA

Summer 2021

- Configured and registered laptops with custom firmware, ensuring proper setup for institutional networks.
- Performed thorough QA checks to verify software installations, security protocols, and network configurations.
- Worked with a team to resolve technical issues, maintain inventory, and ensure timely completion of laptops.

## PROJECTS

**Portfolio Website** | *TypeScript, Next.js, Tailwind CSS*

Feb 2024 – Sep 2024

- Built a portfolio website to showcase previous projects and experience in a responsive, mobile-friendly layout.
- Developed modular, reusable React components to promote maintainability and clean architecture.
- Deployed the site with Vercel for continuous delivery and used Git for version control to manage development.

**Machine Learning for Art Style Classification** | *Python, Numpy, Pandas, Matplotlib*

Aug 2023 – Dec 2023

- Collaborated with a team of five to develop a machine learning model for classifying artwork into historical art styles, training on a dataset of 16,800 works of art from 50 notable artists.
- Preprocessed dataset by standardizing image sizes and augmented underrepresented classes using geometric transformations to address class imbalance.
- Implemented VGG and ResNet-18 architectures for image classification tasks using PyTorch. Compared performance of the models using loss curves, confusion matrices, and F1-scores.

**Social Discovery App** | *Expo, React Native, Firebase, AWS Lambda*

Aug 2023 – Dec 2023

- Developed a social discovery app that randomly matches users within a community to encourage new connections.
- Automated daily matching updates with AWS Lambda and EventBridge, syncing data in Firebase.
- Implemented email/password login and built an admin platform for A/B testing and user metrics.

**Chat Bot** | *Python, PostgreSQL*

May 2023 – Jun 2023

- Developed multipurpose Discord bot using Python and the discord.py library, implementing features such as API data retrieval, user interaction commands, and administrative controls.
- Integrated a PostgreSQL database to persistently store and retrieve user-submitted quotes, enabling daily quote delivery and dynamic content generation.
- Implemented administrative tools such as user blacklisting to manage access and ensure proper use of commands.

## SKILLS AND ADDITIONAL INFORMATION

**Languages:** Java, Python, C/C++, C#, SQL, JavaScript, HTML/CSS, TypeScript | English, Spanish

**Frameworks & Libraries:** React, Next.js, Expo, Tailwind CSS | NumPy, Pandas, Matplotlib, PyQt5, PyTorch

**Technologies & Platforms:** Node.js, WebSockets, PostgreSQL | AWS Lambda, Azure Runbooks, Vercel, Firebase

**Developer Tools:** Git, VS Code, IntelliJ, Postman, Jupyter Notebook

**Interests:** Graphic design, photography, game development, video editing, music production