MICHAEL W. BARILLA

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EXPERIENCE

Accenture,   2020 – Pres.
Development Consultant
- Orchestrated a resource deployment strategy that automated and fortified 500 resource deployments utilizing cutting-edge DevOps methodologies and custom build scripts.
- Spearheaded the development of a robust backend database for a medium-scale application, leveraging MySQL database management and the Django framework.
- Led the creation of an enterprise-grade cloud framework, accommodating the needs of over 300 applications, through meticulous requirement gathering in collaboration with clients during a series of comprehensive workshops.

Senior Technical Analyst
- Innovated new features and boosted the effectiveness of a deployment accelerator sequencer, enriching a collaborative project with over 75 lines of code contributions.
- Harnessed the potential of third-party API endpoints to gather data from a sprawling enterprise cloud platform, enriching a comprehensive platform assessment.
- Assumed the role of environment administrator for a 450-user sandbox environment, encompassing the creation of hands-on labs, expert guidance to developers, and the implementation of streamlined process automations.

Analyst
- Developed a multifactor authentication (MFA) reset application, incorporating user validation through third-party API endpoints, and employing a synergy of PowerShell and PHP programming.
- Crafted comprehensive documentation and runbooks for cloud networking systems, facilitating the onboarding, and training of a 7-person operations team to seamlessly assume resource management responsibilities.

NC State New Student Programs,   2018 – 2020
Developer
- Designed and maintained a dynamic website for event registration and informational updates, accommodating over 300 daily users, while consistently delivering responsive design and real-time content updates, through continuous content management and regular performance optimizations.
- Effectively managed a database containing confidential information for a user base of 15,000, ensuring data integrity, security, and optimal accessibility for seamless operations.

Lenovo,   2018 – 2018
Product Engineering Intern
- Achieved bug replication by designing a robotic system that utilized both physical and programmatic inputs, resulting in improved troubleshooting and analysis capabilities.

SKILLS

Languages: Python, C/C++, Java, Flutter, Django, SQL, PHP, HTML/CSS, JavaScript, PowerShell, Bash
RESTful API design, Git, Azure, Web application security, TCP/IP, HTTP/S, DNS, Firewall configuration, Terraform, technical documentation, Markdown, Written and visual presentations.

PROJECTS

Workout Tracking API*, Python (Django) / MySQL*
- Developed a Django-based REST API with JWT user-based authentication for a workout tracking application, enhancing user data security and accessibility.

Healthy Eating Mobile Application*, Flutter / Firebase*
- Created a Flutter-based meal tracking app with Firebase integration, promoting healthy habits for low-income workers through a recipe guide and meal planner.

Plant Care Application*, C++ / Kotlin / Python*
- Integrated IoT microcontrollers (C++) with an array of sensors and a Kotlin mobile app using HTTP requests for advanced plant monitoring and care.

EDUCATION

North Carolina State University
M.S. Computer Science   2022 – 2024
B.S. Computer Engineering & B.S. Electrical Engineering   2016 – 2020