Michael Kuek

Intelligent Automation Engineer | Atlanta, GA | (678) 622-4430
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I am a civil engineer by trade who transitioned into software engineering. My passion for problem solving and programming has led me to a path of continuous learning. My background as a traffic engineer paired with my experience as a software engineer has allowed me to gain expertise in automation solutions, multi-system integrations, and process optimization. I am adept at leveraging Microsoft Power Platform, AWS services, and REST APIs to design and deploy scalable solutions. As an experienced consultant, I have become skilled in partnering with stakeholders and service providers to deliver robust, high-quality automation projects.

Software Development Skills

Automation & Integration: Microsoft Power Platform (Power Automate Cloud and Desktop). AWS CloudFormation, Lambda, and API Gateway. REST APIs, web services, and multi-system integrations.
Programming Languages: Python, PowerShell, JavaScript, TypeScript.
DevOps & Deployment: GitHub Actions, branching strategies, and CI/CD pipelines.
Project Management Tools: Jira, Confluence.
Engineering Practices: Agile/Scrum, peer code reviews, technical documentation.

Education

DIGITAL CRAFTS | Full-Stack Software Engineering | Atlanta, GA   Oct 2021– Apr 2022
GEORGIA INSTITUTE OF TECHNOLOGY | M.S., Civil Engineering | Atlanta, GA   Jan 2014- May 2015
GEORGIA INSTITUTE OF TECHNOLOGY | B.S., Civil Engineering | Atlanta, GA   Aug 2008-May 2012

Professional Work Experience

Experient Group | *Intelligent Automation Engineer* | Atlanta, GA   Jul 2022 - Present
- Designed and deployed automation workflows using Power Automate Desktop and AWS Lambda, reducing critical process times by 50%.
- Created custom Power App to interface Sharepoint list with daily approval of lunch menus and live display outputs that eliminated the need for manual processes
- Migrated existing RPA solutions from Blue Prism to Power Automate Desktop/Cloud solutions, reducing annual server and licensing costs.
- Built a Power Automate flow to process and analyze email data via Graph API, reducing manual efforts by 40%.
- Designed and implemented a CI/CD pipeline using AWS CloudFormation and Lambda, streamlining deployment processes and reducing runtime by 85%.
- Developed a Python package to compare potential software implementations, enabling data-driven decisions for internal stakeholders.
- Integrated systems and processes via REST APIs and Python, improving data accuracy and reducing manual workloads.
- Restructured PowerShell scripts to manage Microsoft licenses for 3,000+ staff, cutting execution time from 6 hours to 30 minutes.
- Implemented Python-based reporting packages for Salesforce API integrations, enhancing data quality and reliability.
- Collaborated with stakeholders to draft technical documentation and solution diagrams in Confluence, ensuring alignment with project goals.
- Actively contributes to Agile SCRUM meetings, including sprint planning, code reviews, and deployment activities.

Jacobs Engineering | *Traffic Engineer* | Atlanta, GA   Apr 2018 - Jun 2022
- Leveraged historic traffic signal data (ATSPM) to create signal timing plans remotely and without the need of traditional timing methods such as volume counts or timing software
- Created reporting system to identify poorly performing intersections. System allowed for further troubleshooting and issue identification
- Coordinate between client and consultants to ensure timely project delivery
- Created automated, custom excel macros (VBA) to transfer construction data into user friendly reports and tables
- Maintained 400,000 entry database for road closures throughout Georgia via Microsoft Access and SQL tables