

Gustavo Alves

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EDUCATION **Colorado School of Mines**, Golden, Colorado
B.S Computer Science, Minor in Computational and Applied Mathematics
December 2022, Summa Cum Laude GPA: 3.956/4.000

EXPERIENCE **Software Engineer II** Microsoft
January 2023 - Present Redmond, WA

- Designed and developed Continuous Integration/Continuous Delivery (CI/CD) and DevOps infrastructure automation tooling for firmware validation pipelines supporting upcoming Azure hardware platforms using Python, PowerShell, and C++.
- Designed and developed an automated deployment orchestration system for distributing firmware across large-scale test environments, significantly reducing manual provisioning effort using Python and PowerShell.
- Led the design and development of a web service for collecting and aggregating hardware utilization metrics, enabling data-driven operational reporting for engineering leadership using C#.
- Led development of a release automation platform for firmware component distribution, reducing manual operational workload for firmware engineering teams and program managers by 50%.
- Integrated, debugged, and resolved over 1,500 unit, acceptance, and integration tests to improve firmware release reliability and deployment confidence.

Software Engineering Intern Amazon
May 2022 - August 2022 Boulder, Colorado

- Collaborated closely with the Advertising team to enhance the capabilities of the Amazon Marketing Cloud, facilitating customers in crafting tailored query-driven audiences for utilization in forthcoming advertising campaigns.
- Applied a diverse array of AWS products, including **S3**, **Step Functions**, **Lambda**, and **DynamoDB**, to achieve project objectives effectively.
- Employed an array of Continuous Integration/Continuous Deployment (CI/CD) tools to streamline the process of delivering releases to customers.
- Led the design and execution of this initiative, which subsequently matured into a project engaged by a team of over six full-time engineers.

COMPUTER SKILLS **Programming Languages:** C, C#, C++, Kotlin, TypeScript, Java, Python, Bash, PowerShell, Postgres, Bash.
Development Tools: Linux, Git, AWS, Azure, Docker, Kubernetes.