

# Maximos Xu

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## EDUCATION

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### Northwestern University

Evanston, IL

*Master of Science in Computer Science*

Sep. 2022 – June 2023

*Bachelor of Science in Computer Science*

Sep. 2019 – June 2022

GPA: 3.9/4.0

## TECHNICAL SKILLS

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**Languages:** Python, C++, C, Java, HTML, CSS, JavaScript, SQL, Bash

**Technologies:** Git, Linux, Terraform, Ansible, Azure, AWS, GCP, Docker, Kubernetes, Puppet

## EXPERIENCE

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### ServiceNow

Seattle, WA

*Senior Systems Engineer*

March 2025 – Present

- Led datacenter buildouts of three new Azure regions and onboarded AWS and GCP, bootstrapping Terraform frameworks, configuring DNS zones and records, and deploying required infrastructure services
- Consolidated siloed legacy RBAC groups across AWS, Azure, and GCP, reducing total groups by 78% and streamlining access management, permissions reviews, and request workflows

*Systems Engineer*

September 2023 – March 2025

- Migrated 90+ RHEL7 VMs to RHEL8, achieving 30% faster database clone and restore times
- Automated Azure elevated permissions using Terraform and Sailpoint, removing breakglass account reliance and enabling full deployments without manual ticket approvals - recognized with Llama Award
- Deployed generative AI infrastructure in Azure and AWS, including H100 GPU VMs, OpenAI models, and BedRock endpoints, automating model updates and service endpoint key rotations with Terraform

*Systems Engineer Intern*

June 2022 – Aug. 2022

- Reduced infrastructure misconfigurations by designing a Python unit testing framework validating Terraform modules and Azure service configurations
- Enhanced reliability by integrating the framework into CI/CD pipelines, enabling automated pre-deployment checks and faster issue detection

### SAP

Chicago, IL

*Software Developer Intern*

June 2021 – Aug. 2021

- Automated regression testing for SAP Asset Manager mobile app using Appium and Java, identifying issues from back-end verification errors to client crashes before release
- Reported and tracked bugs in Jira, accelerating resolution and reducing defect turnaround time

## PROJECTS

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### Photo App | Python, Flask, PostgreSQL, HTML, CSS, Javascript

- Developed a full-stack photo sharing web app with following, liking, bookmarking, and commenting
- Created RESTful API endpoints using Flask to handle CRUD operations for posts, comments, and likes
- Built frontend interface with JavaScript and HTML/CSS client-side templating; deployed on Heroku

### Compiler | C++, PEGTL

- Designed a compiler translating a basic C-like language to Intel x86\_64 machine code, performing ~60% faster than gcc/clang
- Implemented liveness analysis, register allocation, instruction selection, and code linearization algorithms
- Used PEGTL to parse intermediate language into memory representation of the program