CAROLINE YU

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https://github.com/carolinelilyyu/ | https://carolinelilyyu.github.io/portfolio/v1/

EDUCATION

Northeastern University   **September 2023 - May 2025**
Master's, Computer Science

University of Massachusetts - Amherst   **September 2014 - May 2018**
Bachelor's, Computer Science   *GPA: 3.3*

Certifications: Oracle Cloud Infrastructure Certified Architect Associate, Amazon Web Services Certified Developer - Associate Certificate, Front End Development Graduate Certificate

PROFESSIONAL EXPERIENCE

Unity   **Cambridge, MA, USA**
Software Engineer II   *September 2021 - December 2022*
- Architected and coded a secure way for our tracking partners to send postbacks to some endpoints and APIs using asymmetric keys using Ruby on Rails. Worked closely with the security team and PMs to create an in-depth white paper for our tracking partners.
- Added a feature called Multi Reward Cost Per Action to our main offerwall product, which allowed users to complete and track multiple different tasks in order to gain rewards.
- Refactored outdated code for our attribution conversion flow.
- Responsible for attribution, conversion flow, and tracking using Google BigQuery, GraphQL, Ruby on Rails.
- Onboarded Measurement team to Honeycomb logging and made SignalFx alerts.

Oracle   **Burlington, MA, USA**
Software Engineer II   *February 2020 - September 2021*
- Developed API's for two customer-facing cybersecurity services;wrote unit tests for control and data plane in Java.
- Adopted microservice architectures in projects, which included multiple different services.
- Programmed in an Agile environment using Go code that sends and reads scan data from our queue.
- Wrote Terraform to deploy our infrastructure code and was also part of the DevOps Platform team.
- Onboarded and wrote the Java code for our end-user tests that run every 10 minutes from our customer/service enclave.
- Wrote part of the SQL database code for our objects from our data plane.
- Developed multiple metrics, alarms, Grafana dashboards, runbooks and logs for our application's health and took active part in our 24/7 hour on-call rotation.

Oracle   **Burlington, MA, USA**
Solution Engineer   *May 2018 - February 2020*
- Led and coded 10,000 Monkeys, a full-stack web-app to simulate enterprise workloads and thousands of virtual users making transactions on Oracle's Autonomous Database.
- Led and programmed backend in Python for Reverse Engineering, a tool used to collect info of all cloud resources on a cloud account and generate Terraform.
- Developed a full-stack prototype web-app, written in Django, connecting to Oracle's Autonomous Database for a customer.
- Wrote custom Terraform scripts and gave technical workshops for customers, such as PepsiCo, PwC, etc.
- Architected disaster recovery solutions and helped perform "on-premise to cloud" migrations
- Contributed to write open source OCI API library for cloud native language Ballerina.

Hewlett Packard Enterprise   **Boston, MA, USA**
Software Engineer Intern   *May 2016 - August 2017*
- Automated infrastructure as code for contractor company in Ukraine with CloudFormation and Docker to provision a fault tolerant solution to run Jenkins server and have data persist on an Elastic File System.
- Used Terraform, Packer, and Chef to bake an AMI and create an auto scaling group and EC2 Container Service environment to transfer data.
- Used NodeJS and React to create an on-boarding web application implementing Microsoft Azure API, Google API, JoinMe API, Confluence API, and Slack API.
- Programmed and designed 3 Google Apps scripts for Operations Team.
- Wrote tests with Selenium and CI platform, Jenkins, to test multi-browsers for AppVista.
- Served as head of the company's IT Technician/Department and personally assisted the CEO.

SKILLS & INTERESTS

Skills: Node.js, AngularJS, Adobe After Effects, Adobe Photoshop, Agile, Android Development, Animation, Atlassian, AWS, BigQuery, Computer Networking, Confluence, Customer Service, Development Operations (DevOps), Django, Docker, Google Cloud Platform, GraphQL, Heroku, iOS/Swift, JavaScript, Jenkins, JIRA, jQuery, Git, HTML/CSS, Java, Linux/Unix, C/C++, Maven, Microsoft Azure, MongoDB, MySQL, OpenGL, Oracle, Postgres, Postman, Pytorch, React.js, REST APIs, Ruby, Ruby on Rails, Sales, SCRUM, Selenium, Tensorflow, Terraform, Kubernetes, Python, Nginx, UI/UX Design, Unity, Video Editing, Vue.js, Web Development, Go, Digital Ocean, Redux