

Parth Patel

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EDUCATION

Temple University College of Science & Technology, Philadelphia, PA
Mathematics & Computer Science, B.S.
GPA: 3.99/4 Dean's List: Fall 2020 - Present

August 2020 – December 2023

EXPERIENCE

Software Engineer I - Azure Cloud Enablement Team

Feb 2024 – Present

JP Morgan and Chase

Wilmington, DE

- Implemented an event-driven scanning and reporting system for identifying non-compliant Azure cloud resources, enabling developers to secure their resources and adhere to industry standards for cloud deployments, with the capacity to process and report on millions of items daily.
- Designed and implemented an automated remediation mechanism for non-compliant Azure cloud resources, leveraging detection criteria to fix security violations in real-time and ensure adherence to banking regulations.
- Collaborated with neighboring teams to architect a new solution for pipeline credentials, replacing certificate-based logins with federation. This streamlined developer workflows by eliminating credential management and reduced the risk of credential exposure.
- Automated the conversion of old Microsoft Azure Policies to help developers focus on implementing newer security standards for the firm saving many teams 1 or more sprints of work.
- Transformed code repositories from standard Terraform scripts to configuration-driven code, enabling external teams to trigger tasks by filling out simple YAML files instead of writing any code.

Software Engineering Intern - Home and Auto Loans Dept.

June 2023 – August 2023

JP Morgan and Chase

Wilmington, DE

- Created a Mortgage Appraiser record search functionality with SpringBoot and React and ensured it met business needs by communicating with relevant stakeholders.
- Utilized testing methods such as Unit Testing, Component Testing, and Automated Functional Testing to only deploy resilient and documented code into production.
- Leveraged Terraform's infrastructure as code (IAC) capabilities to automate an AWS Website deployment which allowed me to hold a knowledge transfer session with the team.

Research Assistant

May 2022 – June 2023

Human Computer Interaction Lab at Temple University

Philadelphia, PA

- Addressed the lack of data literacy education access by working with a team to create a Chrome Extension that detects and classifies data visualizations on the web using Machine Learning with 80% accuracy.
- Converted the Chrome Extension to a Web App to reduce the experimental overhead by allowing users to visit our website to test the intervention rather than having to download it and its dependencies.
- Co-authored 3 research papers which were both accepted into notable conferences about topics like Alternative Communication devices for Autistic Kids and Data Visualizations.

Teaching Assistant - Operating Systems

January 2023 – December 2023

Computer Science Department at Temple University

Philadelphia, PA

- Introduced new projects weekly and provided resources to students to help them complete labs on time.
- Helped students in converting their code to reflect more efficient design patterns and aided in testing their code.
- Conducted weekly office hours to provide individualized support and feedback to students on their assignments.

TECHNICAL PROJECTS

SmartSpeech | AWS, Typescript, React, Python, Docker

December 2023

- Led a team of 6 developing a drawing-to-speech app for non-verbal autistic children to aid them in expressing themselves.
- Utilized the AWS Public Cloud to ensure the backend of the application is resilient to service failures and employed networking security best-practices by employing private connectivity whenever possible.
- Reduced infrastructure costs by shifting to a serverless container architecture from underutilized VMs.

TECHNICAL SKILLS

Languages: Javascript, Typescript, Python, HTML, CSS, Golang, Java, C, Oracle SQL, MATLAB

Frameworks / Services: React.js, Next.js, Node.js, Express.js, TailwindCSS, Firebase, SpringBoot, Kubernetes

Developer Tools: Git, GitHub, Wireshark, NPM, Unix/Linux

Testing: Mockito, Jest, Selenium, Postman

Certifications: [AWS Cloud Practitioner](#), [HashiCorp Terraform Associate](#), [Azure Fundamentals](#), [Azure Administrator Associate](#), [Azure Solutions Architect Expert](#), [Azure Security Engineer Associate](#)