Nicolas Patil

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Education

University of California, Santa Cruz   09/2021 – 06/2023
B.S Computer Science   Santa Cruz, CA

Professional Experience

DNAnexus

Security Automation Contractor   09/2022 – 09/2023
- Prototyped and deployed a complete **Terraform** stack for a **MySQL RDS** instance   Mountain View, CA
  within the company's VPC. Designed with least privilege principles, the architecture
  encompassed security groups, subnet configurations, and **IAM** roles, achieving
  enhanced security and operational efficiency
- Automated manual tasks for user management auditing, integrating with the **Jira API**
  to assign tickets containing group membership data to relevant employees to reduce
  time and friction during auditing process

Security Automation Intern   06/2022 – 08/2022
- Deployed and optimized an auditing tool using **Terraform**, integrating with   Mountain View, CA
  security/auditing services like **Okta** to streamline the security compliance process by
  automating extraction of data from various security reporters and tools

Genie   07/2020 – 12/2021
Founder/Software Architect   Saratoga, CA
- Designed, implemented, and successfully deployed a full featured, roundups-powered
  student loan payback app, integrating with **Plaid**, **Stripe**, and **Dwolla**
- Won Audience Favorite award at USC TroyLabs Launch event after presenting
  alongside fellow founders
- Architected and implemented a scalable, containerized **Flask/NoSQL/EC2/Lambda**
  backend, providing a secure interface for mobile app, automating roundup data
  collection and subsequent payments, and storing data anonymously and securely
- Led the development of a **Firebase** authenticated iOS/Android app using **SwiftUI** and
  Java

RSTOR (acquired by PacketFabric)

Software Engineer Intern   07/2020 – 09/2020
- Worked in tandem with a seasoned cloud-industry software architect to develop a   Saratoga, CA
  distributed cloud orchestration solution, allowing for secure remote container
  execution on unsecured machines using **Singularity** containers
- Configured and implemented main data transport using **Go** and **MQTT**, allowing for
  content-blind communication between orchestrating scheduler and compute
  instances

Software Engineer Intern   07/2019 – 09/2019
- Designed and built frontend for company-wide demo of cloud orchestration
  prototype, using **React** and later replicating using **Angular**
- Assisted in company's receiving interim funding through presentation of prototyped
  cloud orchestration product

Skills

Languages
Golang, Python, C++, C, JavaScript, SQL, Terraform, Haskell

Frameworks & Tools
Flask, AWS (Lambda, DynamoDB, EC2, S3, RDS), Vercel, Github/Gitlab, GCP (Firebase, Firestore), Docker, React