

Nicolas Patil

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Education

University of California, Santa Cruz

B.S Computer Science

09/2021 – 06/2023

Santa Cruz, CA

Professional Experience

Security Automation Contractor

DNAexus

09/2022 – 09/2023

Mountain View, CA

- Prototyped and deployed a complete **Terraform** stack for a **MySQL RDS** instance 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 user membership collection for user management auditing, integrating with the **Jira API** to assign tickets containing group membership data to relevant employees to reduce time during auditing process by over 40%

Security Automation Intern

DNAexus

06/2022 – 08/2022

Mountain View, CA

- Deployed and optimized an auditing tool using **Terraform**, integrating with security/auditing services like **Okta** to streamline the security compliance process by automating extraction of data from various security reporters and tools, saving the ITSec team 2 hours daily

Founder/Software Architect

Genie

07/2020 – 12/2021

Saratoga, CA

- Designed, implemented, and successfully deployed a full featured, roundups-powered student loan payback app, integrating with **Plaid**, **Stripe**, and **Dwolla**, with over \$15,000 saved for 150 users
- Won Audience Favorite award at USC TroyLabs Launch event after presenting alongside fellow founders, earning \$1000 for our business
- Architected and implemented a scalable, containerized **Flask/NoSQL/EC2/Lambda** backend, providing a secure interface for mobile app, automating financial data collection and subsequent payments, with over 98% uptime
- Led the development of a **Firebase** authenticated iOS/Android app using **SwiftUI** and **Java**, with a 4.9 rating on the App Store

Software Engineer Intern

RSTOR (acquired by PacketFabric)

07/2020 – 09/2020

Saratoga, CA

- Worked in tandem with a seasoned cloud-industry software architect to develop a 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

RSTOR (acquired by PacketFabric)

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