

Nikhil Patel

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Education

UC Berkeley
Computer Science
EECS GPA: 3.75
Grad: Dec 2018

Coursework

- Database Architecture
- Network Architecture
- Computer Architecture
- Algorithm Design
- Data Structures
- Computer Security
- Machine Learning
- Artificial Intelligence
- Languages & Compilers

Experience

**Head of Product
@ Archer**
(May - Sept 2018)

• **Created a platform for graph analysis on related entities — combining humans & computers for data acquisition, analysis, verification, and publication.**

- Highly cross-functional role: product design, frontend, backend, data engineering.
- Architected and implemented a knowledge graph datastore, data ingestion processes (i.e. handling arbitrary documents), and accompanying APIs.
- Designed UI/UX, implemented with React, and ran targeted usability testing.

**Product Manager/Engineer
@ Archer Labs**
(Aug 2017 - May 2018)
SanctionsExplorer.org

• **Designed and implemented a vastly improved website for U.S. Treasury sanctions data, with powerful search, robust data analysis, and a modern & responsive UI.**

- Managed a small team that developed a data parser, web scrapers, nodeJS API powered by Elasticsearch, robust deployment infrastructure, and full product frontend.
- Received 1,000 unique visits from 20+ countries within 24 hours of launch, as well as extensive positive feedback from dozens of high-impact individuals and organizations.

**Researcher & Developer
@ UC Berkeley**
(Aug 2017 - May 2018)

• **Worked directly with Dr. David Anthoff to contribute to open source Julia packages.**

- Implemented performance optimizations geared toward handling large datasets.
- Optimized in-memory data structure querying through metaprogramming.

**Product Engineering Intern
@ Tanium**
(Summer 2017)

• **Developed a profiler that allows customers to diagnose product issues in real-time.**

- Created a plug-and-play NodeJS module to aggregate backend information about each product, including custom diagnostics specified by each development team.
- Intelligently generates a dynamic, interactive frontend for nontechnical customers.

Projects

Flight Scraper
(github.com/n-patel/flights)

• **Created a Python app to scrape & compute cheapest flights under a set of constraints.**

- Handles nearby airports (e.g. OAK & SFO), flexible dates, one-way trips, and budgets.
- Constantly runs & notifies users via Twilio's SMS API when a flight has been found.

RefugeeEmploy

• **Developed a local services market geared toward employing & integrating refugees.**

- Developed a Django webapp after conducting dozens of user interviews.
- Selected as Berkeley's entry to Dept of Homeland Security's international competition.

Tech Skills

Experienced with
Familiar with
Other Tools

Python • Javascript • NodeJS • React • Java • HTML/CSS
AngularJS • d3.js • C/C++ • Scala • Swift
Relational & Graph DBs • Git • Unix • Adobe PS/AI/XD • Sketch