

# Nikhil Patel

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🌐 github.com/n-patel

🖱️ www.npatel.io

## Education

UC Berkeley  
Computer Science  
Bachelor's, Dec 2018  
CS GPA: 3.7 / 4.0

### Coursework

- Database Architecture
- Network Architecture
- Computer Architecture
- Algorithm Design
- Data Structures
- Computer Security
- Artificial Intelligence
- Languages & Compilers
- Image Processing

## 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 a graph schema and implemented an RDF knowledge graph.
- Oversaw and developed a data pipeline (i.e. data ingestion) and accompanying APIs.
- Oversaw and implemented UI/UX (React), and managed user/usability testing.

**Product Manager/Tech Lead**  
**@ 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](https://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