

Nikhil Patel

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EDUCATION

University of California - Berkeley

Computer Science major — expected graduation of Dec 2018

Coursework: • Algorithm Design • Database Architecture • Artificial Intelligence • Computer Architecture •
• Data Structures • Networking • Discrete Math • Linear Algebra • Multivariable Calculus •

TECH SKILLS

Most experienced with: Python • Java • Javascript • Node • jQuery • HTML5 • SQL • Julia

Some experience with: Angular • Backbone • React • D3 • C • Swift/Objective-C

Other tools: Git • Unix/Bash • Photoshop • Illustrator

EXPERIENCE

Tanium: Product Dev Intern Node/Restify, Angular, Jasmine Summer 2017

- Developed a node.js profiler that provides real-time snapshots of the server by aggregating backend diagnostics.
- Allows each product development team to construct custom diagnostic metrics to facilitate resolving backend issues.
- Intelligently & algorithmically generates an interactive user interface by parsing standard and custom diagnostic data.

Undergraduate Researcher Julia Fall 2017

- Working directly with Professor David Anthoff to contribute to major open-source packages for the new Julia language.
- Writing benchmarks to assess the performance of packages involved in data querying & in-memory storage.
- Actively contributing to the development of existing packages with performance optimizations geared toward Big Data.

Archer Impact: Software Engineer Node, IPFS (Interplanetary File System) Fall 2017

- Nonprofit developing technology for problems in human-centered security (e.g. terrorism, trafficking, human rights).
- Working in a team to develop a webapp for immutable, decentralized storage of criminal evidence & investigative data.
- Personally implementing the entire core IPFS backend, which decentralizes data from the Node server to IPFS nodes.

EXTRACURRICULARS

Blockchain @ Berkeley: Consultant Solidity, Truffle, web3 (Ethereum) Spring 2017

- Developed a proof-of-concept decentralized web service for FDA-compliant pharmaceutical supply chain management.
- Worked in a small team to architect and implement an Ethereum smart contract with accompanying management UI.
- Our project was selected as the organization's best overall project for the spring 2017 semester.

PROJECTS

Trello Calendar (www.PlanOut.today) d3, backbone, Trello API, Bootstrap

- Created an open-source, client-side webapp which allows users to create events from data in their Trello account.
- Designed a custom interactive calendar UI using d3.js which supports all standard calendar management functionality.
- Implemented persistent client-side data storage with two-way synchronization and the ability to save/load templates.

RefugeeEmploy (Marketplace) Django, Bootstrap

- Developed a local services marketplace where individuals who post tasks are matched with refugees of appropriate skillset.
- Performed extensive market research and conducted dozens of interviews with relevant stakeholders to dictate features.
- Selected as Berkeley's submission to the Department of Homeland Security's international competition (Peer to Peer).