

neal patel

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experience

full stack developer - think3dprint.com (old site) july 2020 - present

- implemented a performant database utilizing fastapi, postgresql, sqlalchemy, pydantic.
- containerized development and production environments: docker and docker-compose.
- designed and implemented schema for an internal REST API (documented via swagger docs)
- implemented interactive admin panel for managing day-to-day business workflows

web developer - ugahacks.com mar 2020 - present

- led my team in refactoring our codebase into ReactJS for flexibility and performance.
- wrote backend functionality to accommodate for online check-in due to COVID.
- improved mobile site performance by 68.5% and desktop site performance by 49.1%.
- maintained and developed new functionality used by over 500 participants annually.

software developer intern - **valens software** may 2015 - aug 2015

- developed mobile-facing implementations for widgets in Lua and mySQLite.
- created an interactive calendar widget that was highly coupled with the core scheduler.
- developed demoware applications for trade shows and new leads.

research assistant - **georgia tech research institute** may 2016 - aug 2016

- conducted 320 lab hours in synthesis, testing, & analysis of organic field effect transistors, resulting in publishing a 10 page research paper on n -type OFETs.
- acquired skills to adapt and learn in an advanced, fast-paced, high-stakes environment.

projects

algorithmic automated stock trading [medium article](#) [source code](#)

- a python-powered automated trader utilizing alpaca.markets.
- tech stack: [python](#), google cloud platform, sql, REST.

[pretty.market](#) - market charts, but pretty [medium article](#) [source code](#)

- passion project that combined my interests in finance, art, design, and coding!
- tech stack: [react.js](#), github pages.

raspberry pi object recognition camera [medium article](#) [source code](#)

- a machine-learning powered custom-built hardware camera.
- tech stack: [python](#), rpi unix, google cloud platform, TFT display technology.

skills

c/c++ | python | react | fastapi | java
alembic | pytest | django | rdbms (sql) | docker
git | *nix | gcp | aws | arch linux

leadership

#teamtrees dec 2019

- planted trees and led a small camera crew on an on-site project.
- a charity effort to mass-plant trees using comedy and shovels. 200-tree contribution.

education

university of georgia | b.s. computer science | 3.41/4.00 gpa