neal patel

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experience

full stack developer - think3dprint.com (old site)   **july 2020 - present**
- implemented performant database utilizing fastapi, postgresql, sqlalchemy, pydantic
- containzered development and production environments: docker and docker-compose
- implemented an *.STL* rendering engine for customers to view models and estimates.
- 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-pace, high-stakes environment.

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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.

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skills

c/c++ | python | fastapi | django | react
html5/css3/js | java | rdbms (sql) | docker
git | *nix | gcp | aws | adobe editing suite

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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.

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education

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