

# < neal patel />

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## [experiences]

### full stack developer - think3dprint

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 - ughacks

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-19.
- 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 MySQL.
- created an interactive calendar widget that was highly coupled with the core scheduler.
- developed demoware builds 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.

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## [projects]

### [helpushelp.earth/](https://helpushelp.earth/) - the invisible impact

medium article [source code](#)

- an interactive art piece addressing environmental concerns in local and global communities.
- tech stack: [react.js](#), adobe illustrator, github pages.

### ticker tape polybar module & cli td ameritrade

[medium article](#) [source code](#)

- module for arch linux polybar: futures, indexes, and stocks with custom oauth2.0 cli.
- tech stack: [python](#), bash, REST.

### algorithmic, momentum-based stock trading

[medium article](#) [source code](#)

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

### 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 | react.js | fastapi | java | typescript  
alembic | pytest | django | rdbms (sql) | docker  
git | \*nix | google cloud | aws | arch linux  
strong written communicator | apt generalizer | first-principles explainer

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## [education]

university of georgia | b.s. computer science | 3.5/4.00 gpa