

# NEAL PATEL

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[thatnealpatel.com](https://thatnealpatel.com) | [github.com/nealdotpy](https://github.com/nealdotpy)

## EXPERIENCE

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### THINK3DPRINT – Remote

Full Stack Engineer

Aug 2020 – February 2021

- Implemented a horizontally scalable database utilizing fastapi, postgresql, sqlalchemy, pydantic.
- Increased order workflow efficiency by 67% with automated inventory tracking and restocking.
- Created an interactive admin panel for managing day-to-day business workflows, decreasing customer turnaround time by 50%.

### UGAHACKS – Athens, GA

Web Developer

March 2020 – February 2021

- Developed new internal tooling for sending out emails and creating templates, positively impacting workflows of 7 logistics and marketing team members.
- 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%.
- Launched and maintained new functionality used by over 500 participants annually.

### GEORGIA TECH RESEARCH INSTITUTE – Atlanta, GA

Research Assistant

May 2016 – August 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.
- Presented findings to an audience of over 35 peers and advisors, fielding a technically rigorous 15 minute Q&A session afterwards.

### VALENS SOFTWARE – Atlanta, GA

Software Developer Intern

May 2015 – August 2015

- Developed customer-facing calendar widget in Lua and MySQL, increasing ease of scheduling inspections.
- Produced demoware builds for trade shows, increasing the visibility of our product.

## PROJECTS

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### COMMAND LINE STOCKS

- Module for arch linux polybar: futures, indexes, and stocks with custom oauth2.0 cli.
- Published: [Medium Article Link](#); Python 3, Google Cloud Platform, Bash, BigQuery, REST.

### AUTOMATED, EMA-BASED SECURITIES TRADING

- An automated trader utilizing alpaca.markets, returning 35% in a paper trading account over a year.
- Published: [Medium Article Link](#); Python 3, Google Cloud Platform, SQL, REST

### RASPBERRY PI OBJECT RECOGNITION CAMERA

- A machine-learning powered custom hardware camera capable of identifying up to 10 simultaneous objects.
- Published: [Medium Article Link](#); Python 3, Google Cloud Platform, TFT Display, Machine Learning

## SKILLS

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C, C++, Python, Java, TypeScript, JavaScript  
Alembic, Pytest, FastAPI, Django, Flask, MySQL, PostgreSQL, Docker  
Git, \*nix, Google Cloud Platform, Amazon Web Services (AWS), Arch Linux  
Strong Written Communicator, Apt Generalizer, First-Principles Explainer

## EDUCATION

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### UNIVERSITY OF GEORGIA – ATHENS, GA

May 2021

Bachelor of Science, Computer Science; GPA: 3.5/4.0