

# Neil Patel

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## EDUCATION

### Davidson College

*Bachelor of Science in Computer Science*

Davidson, NC

*Expected May 2022*

- GPA: 3.6
- Relevant Coursework: Programming & Problem Solving, Linear Algebra, Data Structures, Computer Organization, Theory of Computation

### Davidson in Silicon Valley

*Introductory Coding Bootcamp*

San Francisco, CA

*July 2019 – Aug 2019*

- Relevant Coursework: Critical Web Design
- Learned web design with HTML5, CSS, and JavaScript

## SKILLS

- **Programming Languages:** JavaScript, Python (all Advanced), C, Java (all Intermediate), Assembly, Standard ML (all Beginner)
- **Markup and Other Languages:** HTML (Advanced), CSS, LaTeX (all Intermediate)
- **Frameworks & Tools:** Git, Github, Node.js, UNIX Shell (all Intermediate), Mathematica, PowerShell (all Beginner)
- **OS:** Windows (Advanced), Kali Linux, Ubuntu (all Intermediate)
- **General Skills:** API Usage, Automation, Computer Repair, Scripting, Web Design, Web Scraping

## CODING PROJECTS

### siegeQR – Solo

*JavaScript Game*

Davidson, NC

*Oct 2020*

- Self-taught classical physics, particularly the motion of projectiles – ballistics – to program a rudimentary physics engine  
<https://nepatel.github.io/siegeQR/>
- A ballistics simulator with keyboard and touch controls to adjust angle and velocity and fire projectiles

### CrimeScraper – Solo

*Python API + AdonisJs Application*

Davidson, NC

*Oct 2019*

- A data dashboard that visualizes the frequencies and types of crime on Davidson College's campus  
[crime-scraper.herokuapp.com](https://crime-scraper.herokuapp.com)
- Scrapes a spreadsheet of the Davidson College Crime Log and serves a JSON-like object as the response  
[crimelog.herokuapp.com](https://crimelog.herokuapp.com)
- Uses the crime-scraper JSON and the D3.js library to visualize the data in a bar chart and a bubble chart

### MajoredIn – Group

*AdonisJs Application*

San Francisco, CA

*Aug 2019*

- Created CRUD (Create, Read, Update, Delete) methods for forms and implemented relational database structure
- Assisted team in learning the Node.js framework, AdonisJs and set up "Explore" to dynamically display profiles  
[majoredin.herokuapp.com](https://majoredin.herokuapp.com)
- Helps younger students explore "paths" to their major by using older students' and young alumni's college history

## EXPERIENCE

### Center for Teaching and Learning

*Computer Science Tutor*

Davidson, NC

*Aug 2020 – Present; Aug 2019 – Jan 2020*

- Provide instruction to individual or small groups of students of introductory computer science courses

### Davidson College – Humanities Department

*Humanities Fellow*

Davidson, NC

*May 2019 – May 2020*

- Collaborate with the department head and professors to determine student needs, develop lesson plans, and assess progress
- Act as a writing tutor for students of the program, and hold mandatory discussion groups for a small group of students

### Technology & Innovation

*Communications and Engagement Assistant*

Davidson, NC

*Aug 2018 - May 2019*

- Construct varying media like graphic designs, news stories, social media posts, web articles, and video edits to promote the Davidson College IT department's initiatives to the college community