

# Patrick Smathers

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## SKILLS

- Experience with Java (Oracle Certified Associate in Java 7), C#, Angular, AWS (EKS, Route 53, CloudFront, Lambda, S3), C++,
- Exposure to C, Python, MySQL, SQL Server, PostgreSQL, shell scripting, Kafka, Mulesoft, Adobe Sign

## EDUCATION

CLEMSON UNIVERSITY

Clemson, SC

**Bachelor of Science in Computer Science; GPA 3.80**

May 2023

## EXPERIENCE

LPL FINANCIAL

SC - Remote

**Full Stack Software Engineer – eSignature Team**

June 2023 – Present

- Designed, implemented, and maintained C# APIs and Angular UIs for eSignature applications used by tens thousands of advisors and staff.
- Implemented new system to manage and bundle multiple eSignature requests into one eSignature signing ceremony.
- Assisted with migrating eSignature UI, API, and Databases to AWS. Lead a migration from on-prem SQL Server to PostgreSQL on AWS RDS.

**Software Development Intern – Backend Work**

June 2022 – August 2022

- Worked on a team maintaining and improving a system for financial investors to view accounts and contributions.
- Contributed to APIs in C# to enable investors to better manage their money.
- Developed an EMS queue listener for status updates

CLEMSON UNIVERSITY – SCHOOL OF COMPUTING

Clemson, SC

**Mobile App Developer – Full Stack**

January 2023 – May 2023

- Worked with Clemson's Cooperative Extension to develop iOS and Android apps for their WalkSC Program.
- Building an app in React Native to have feature parity across platforms.
- Setting up Cloud infrastructure for an API, Database, and DNS management, as well as setting up a CD Pipeline for API changes.

**Lead Undergraduate Teaching Assistant**

January 2022 – May 2022

- Scheduled in-person office hours locations.
- Assisted in presenting and developing new training content for new UTAs to teach important basics.
- Interviewed potential new UTAs and assisted in assigning UTAs to classes.

## PROJECTS

- ClemBot - Contributed to a large discord bot written in Python and C# and integrated a PostgreSQL DB - [github.com/ClemBotProject/ClemBot](https://github.com/ClemBotProject/ClemBot)
- Mandelbrot - Created a Java program that can render the Mandelbrot set in different resolutions, locations, zoom factors, and utilizing a variable number of threads - [github.com/smathep/Mandelbrot](https://github.com/smathep/Mandelbrot)
- Conway's Game of Life – Created a Life simulation based on Conway's Life in Java that allows user interaction and manipulation. - [github.com/smathep/GameOfLife](https://github.com/smathep/GameOfLife)
- Fractals.tech – Group hackathon project where users can create different types of fractals on a website, modify their parameters and appearance, and download the image. Won a category award for using a .tech domain. Maintained and hosted on collaborator's website [fractals.iapetus11.me/](https://fractals.iapetus11.me/)
- WalkSC – Capstone project on a continuation of a mobile app for the WalkSC program and Clemson Co-op Ext.

## AWARDS / RECOGNITION

- President's List – Fall 2020, Fall 2021, Spring 2022
- CUHackIt 2022 Hackathon Award (Group Project) – Best use of a .tech domain – Jan 2022
- Upsilon Pi Epsilon – International Computer Science Honor Society – Inducted Spring 2022
- Hispanic Scholarship Fund - HSF Scholar – 2021; 2022
- 1 of 100 HSF STEM Summit Invitees – 2022

## ACTIVITIES

Clemson Photography Club: Spring 2021 – Spring 2022

## INTERESTS

Photography, programming, technology, games, music, science.