

JOHN S. FARRELL III

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EDUCATION

Brown University

(August 2022 - May 2026)

- ScB in Computer Science, Certification in Data Fluency
- GPA: 4.0
- Relevant Coursework: CSCI0170 *Computer Science: An Integrated Introduction*
- Extracurriculars: Cross country, indoor track & field, outdoor track & field

Fairport High School

(September 2018 - June 2022)

- GPA: 97.077 (unweighted)
- Extracurriculars: Computer Science Club (Founder & President), Math Team (Captain & State Finalist), Orchestra (First-Chair, Jazz & Concert Band), Cross Country/Track & Field (Captain & State Medalist)

PROFESSIONAL EXPERIENCE

Software Engineer Intern, Paidly, Rochester, New York

(June 2022 - January 2023)

- *Typescript, PostgreSQL, Chakra, React, Next, Node, GraphQL, Figma, Insomnia, Docker*
- Assisted development of web applications that host companies' student loan repayment benefits.
- Updated token authentication, APIs endpoints for database connection, and client file uploading.
- Developed a dynamic payment feature to give employers more choice on how to offer to their employees.
- On the client site, implemented frontend UI/UX designs from Figma and a dynamic web wizard feature flag.
- On the admin site, programmed data table paging and filtering, and expanded the admin dashboard.

PROJECT EXPERIENCE

Collegy (collegy.org)

(December 2022 - January 2023)

- *Typescript, React, Chakra, Python, ExpressJS, Redux, MongoDB, Heroku, Figma*
- Designed an algorithm around College Scorecard API and user input, outputs recommended universities
- Developed backend RESTful API with Express and site authorization with Google Oauth 2.0 and Redux
- Implemented UI/UX design from Figma; included SVG manipulation, animation, and background patterning

XCTF LIVE (xctf.live)

(November 2022 - December 2022)

- *Typescript, React, Chakra, Python, MongoDB, Heroku, Figma*
- A website to compile and search for past and live race results from around the internet in one place
- Web scraping online race results and transferring a converted version of data to a database
- RESTful API with Express, UI/UX design with Figma, Cloud Application with Heroku

Stock Data Analysis

(November 2022 - November 2022)

- *Python, MongoDB, Heroku*
- Analyzed and applied algorithms in Python to calculate a fundamental analysis of a stock
- Queried data from web scrapers, APIs, and a MongoDB database
- Hosted cloud applications for back-end analysis and front-end UI with Heroku's platform

Web Graphing Calculator (calcproject.com)

(May 2022 - June 2022)

- *Vanilla HTML, CSS, JavaScript (with libraries)* AP Calculus BC
- A web-version of a graphing calculator to mimic a TI-84 calculator, final project for AP Calculus BC
- Implementation of *Nerdamer* framework, as well as a re-work of Patrick Stein's *Simple Graph*
- Designed a UI similar to a TI-84, including graphing, matrices, lists, state plots, and many math functions

TECHNICAL SKILLS

- *Tools:* Figma, Docker, Insomnia, Git, Heroku
- *Languages (in order of proficiency):* Java, Python, JavaScript, TypeScript, ReasonML, Racket, PHP
- *Databases:* MySQL, PostgreSQL with GraphQL, MongoDB
- *Frameworks:* Next, React, Node, Chakra, Bootstrap