Nicholas Payne

(603) ###-#### | Boston MA, 02120 | payne.n@northeastern.edu

EDUCATION

Northeastern University
Boston, MA
May 2022 | GPA: 3.85/4.0
Candidate for Bachelor of Science
Mathematics
Minors:
Data Science
Electrical Engineering
Mechanical Engineering

Salem High School
Salem, NH
June 2017
High School Diploma

COURSEWORK

Dynamical Systems
Real Analysis
Applied Mathematics Capstone
Fundamentals of CS 1 & 2
Data Collection, Integration, and Analysis
Database Design
Large Scale Storage & Retrieval
Statics
Thermodynamics

SKILLS

Proficient in:
VBA • R • SQL
Microsoft Office (Excel - VLOOKUP, Pivot Tables, Power Pivot)

Working Knowledge of:
Mathematica • SAS • Matlab
Racket • Python • Java • LaTeX

INTERESTS

Reading science fiction • Hiking
Playing saxophone • Chess

LINKS

nicholaspayne.net
github.com/nipayne
linkedin.com/in/ni-payne

WORK EXPERIENCE

HOMESITE INSURANCE
Actuarial Analyst Co-op
July 2019 - December 2019 | Boston, MA
- Automated and developed various templates to increase efficiency, including a web dashboard that allowed for users to effectively summarize and visualize loss performance metrics.
- Proposed, developed, and presented to upper level management four different rate level adjustments for various insurance products based on analysis of historical state performance.
- Prepared and presented analytical summaries to several managers, which focused on highlighting the performance and discussing potential strategies of various states.

NORTHEASTERN UNIVERSITY MATHEMATICS DEPARTMENT
Undergraduate Mathematics Tutor
July 2018 - Present | Boston, MA
- Explain and review mathematical concepts for a variety of courses, including Dynamical Systems & Differential Geometry, in order to help students better understand the material and to improve their performance.
- Assist with improving students' study habits and connecting students with various campus resources.

SALEM SCHOOL DISTRICT
Substitute Teacher
December 2017 - Present | Salem, NH
- Teach K-8 students in all subject areas.

COMMUNITY INVOLVEMENT

SQUASHBUSTERS
High School Academic Tutor
September 2017 - Present | Boston, MA
- Mentor high school students and assisted with homework assignments and projects in a variety of disciplines, either one-on-one or in small group settings.
- Prepare students for the college application process by reviewing and providing feedback for essays, resumes, and SAT & ACT prep.

FIRST ROBOTICS COMPETITION TEAM 6324
Mentor
September 2017 - December 2019 | Salem, NH
- Supervised a team of 30 high school students throughout a six-week design & build phase followed by a 2 month competition season.
- Facilitated sessions designed to foster students' strategic planning and leadership skills.
- Guided sub-team composed of 6 students in designing and implementing the electrical subsystem of a 120 pound robot.

FIRST ROBOTICS COMPETITION TEAM 6324
Student
September 2016 - May 2017 | Salem, NH
- Elected student coach and electrical sub-team lead of a 20 student organization
- Advanced to the 2017 FRC World Championships.