Wyatt Napier

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Education

Boston University Expected May 2026

Bachelor of Arts in Computer Science, Minor in Data Science; 3.87/4.00 GPA *Boston, MA*

- **Relevant coursework:** Data Structures & Algorithms, Software Engineering, Database Systems, Linear Algebra, Probability, Foundations of Data Science, Computer Systems, Discrete Math, Functional Programming.

Experience

BostonHacks Jan. 2023 – Present

Logistics Head *Boston, MA*

- Organized catering, merchandise, and other logistics for our hackathon which hosted over 300 hackers by building a timeline for tasks, managing my 10 person team, and coordinating with 4 other teams.
- Recruited 25 young industry professionals to mentor participants, support their projects, and encourage learning.
- Budgeted $30,000 in funds for the hackathon, as measured by the remaining $1,000 surplus, by meticulous budget organization, frequent price comparisons, and prioritizing the most crucial elements such as catering.

Boston University August 2024 – Present

Linear Algebra Course Assistant *Boston, MA*

- Facilitating learning by hosting weekly office hours with one-on-one and group instruction.
- Enhancing students' understanding of course content by grading and giving feedback.

Concepts NREC May 2024 – August 2024

Software Engineer Intern *Wilder, VT*

- Developed a web app that enhances engineers' ability to interact with computational flow diagram (CFD) solutions by utilizing filters on CGNS data within a GUI that leverages VTK, Vuetify, and Trame Python libraries.
- Incorporated visualization of CFD solutions, including wireframe, slices, and outlines, along with enthalpy, pressure, and velocity metrics across turbomachinery, improving engineers' diagnostic and analytical capabilities.

Kappa Theta Pi - Lambda Chapter May 2023 – May 2024

Director of Website Development *Boston, MA*

- Managed the official Kappa Theta Pi website, expanding site functionality by creating 3 new pages.
- Led workshops on website development in React, educating chapter members and increasing technical skills.

Dartmouth Hitchcock Medical Center June 2022 – Aug. 2022

Technical Intern *Lebanon, NH*

- Maintained and repaired biomedical devices, including ultrasounds and pumps, to ensure equipment reliability.
- Set up simulations using hospital equipment to train medical professionals, enhancing skills and preparedness.

Projects

Commute Compositions | *Python, Flask, React, NoSQL* Jan. 2024 – May 2024

- Developed a full stack web application that uses the Google Maps API to determine commute length and create a playlist tailored to the destination using a database of state-themed songs and the Spotify API.
- Built a RESTful API with Flask, ensuring efficient data retrieval and smooth frontend-backend communication.
- Integrated React frontend with Flask backend, using two APIs and MongoDB for data management.

Housing Price Prediction Model | *Python, SKLearn* Jan. 2024 – May 2024

- Created a ML model using Principal Component Analysis (PCA) and Support Vector Machines (SVM) to predict housing prices across the United States.
- Wrote an 8-page paper on the linear algebra and calculus behind PCA and SVM and the efficiency of our model.

Disaster Relief | *React* June 2023 – Aug. 2023

- Designed a web app to match volunteers with those in need after disasters, improving response coordination.
- Built the app using React and RESTful APIs, streamlining volunteer matching and data access.

Technical Skills

Languages: Java, Python, SQL, JavaScript, HTML/CSS, OCaml, x86 Assembly
Frameworks: React, Node.js, VueJS, Angular, Flask, Material-UI, trame, VTK
Developer Tools: Git, Docker, MongoDB, Google Cloud Platform, VS Code, Eclipse, Perforce
Libraries: pandas, NumPy, Matplotlib, SciKitLearn
Soft Skills: Teamwork, Leadership, Problem Solving, Work Ethic, Independent Learning, Collaboration