Wyatt Napier

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Education

Boston University Expected May 2026

Bachelor of Arts in Computer Science, Minor in Data Science *Boston, MA*

- **Relevant coursework:** Data Structures & Algorithms, Software Engineering, Database Systems, Linear Algebra, Probability, Foundations of Data Science, Computer Systems, Discrete Math, Functional Programming.
- 3.87/4.00 GPA

Experience

Software Engineer Intern May 2024 – Present

Concepts NREC *Wilder, VT*

- Developed a web application that enhances engineers' ability to interact with computational flow diagram (CFD) solutions, utilizing filters on CGNS data within a GUI built using VTK, Vuetify, and Paraview libraries in Python, streamlining their analysis process.
- Incorporated visualization of CFD solutions, including wireframe, slices, and outlines, along with temperature, pressure, and velocity metrics across turbomachinery, improving engineers' diagnostic and analytical capabilities.

Logistics Head Jan. 2023 – Present

BostonHacks *Boston, MA*

- Led a team of 10 to plan and execute Boston University's largest annual hackathon, attracting over 300 attendees and fostering innovation and collaboration.
- Established a network of young industry professionals to mentor participants, enhancing the educational experience and support for hackers.
- Coordinated the allocation and distribution of over $30,000 in funds for the hackathon, ensuring efficient resource management and event success.

Director of Website Development May 2023 – May 2024

Kappa Theta Pi - Lambda Chapter *Boston, MA*

- Managed and updated the official Kappa Theta Pi website, improving site functionality and user experience.
- Converted the chapter's website from HTML to React, enhancing site performance and maintainability.
- Organized and led workshops on website development, educating chapter members and increasing technical skills.

Technical Intern June 2022 – Aug. 2022

Dartmouth Hitchcock Medical Center *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