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William Ly

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Education

University of Massachusetts Amherst - Class of 2024 **August 2020 - May 2024**

- **4.0 GPA**
- B.S. in Computer Science
- Relevant Coursework: Machine Learning, Artificial Intelligence, Computer Networks, Search Engines, Algorithms

Technical Skills

Programming Languages: Python, Java, C, JavaScript, HTML, CSS, PHP, SQL

Frameworks: Spark, React Native, Django

Other: Linux, Stored Procedures, DBeaver, Jenkins, GitHub, Agile, IBM Cognos Analytics

Technical Experience

IBM **August 2024 - Present**

Data Engineer *Durham, NC*

- Optimized Spark jobs processing millions of rows to improve data accuracy and reduce runtime by 83% despite limited business context, ensuring access to correct and timely business intelligence
- Navigated interconnected development environments where dependent applications often had unclear ownership, collaborating across teams to address business context gaps

IBM **May 2023 – August 2023**

Backend Developer, Intern *Lowell, MA*

- Integrated custom features into IBM Watson Discovery using React to create a tailored search interface, enhancing the productivity of teams querying for internal documentation.
- Constructed a monitoring dashboard that extracted data from SQL servers through IBM Cognos Analytics, streamlining Jenkins job tracking and analysis

athenaHealth **June 2022 – August 2022**

Software Engineer, Intern *Watertown, MA*

- Spearheaded development of form pre-population using Drupal, PHP, JavaScript, and SOQL to reduce prospect friction and increase acquisition rates.
- Identified gaps of knowledge and coordinated meetings with stakeholders to gather necessary information to facilitate completion of the project.

Revere City Hall **October 2019 – August 2020**

Software Engineer, Intern *Revere, MA*

- Leveraged Java, React Native, and Firebase to develop a full stack inventory management system, streamlining tracking of over 150 of Water and Sewage Department's supplies and of city's COVID-19 supplies.

Projects

Classmate Finder at UMass | HTML, JavaScript, CSS, Django **September 2020 – January 2022**

- Deployed website to allow UMass students to seamlessly share social media accounts with others in their classes, creating 5000+ connections between students.
- Continuously devised and implemented useful features to elevate user experience, such as an email notification system, the ability to add group chat links, and a Chrome extension.

Piano Lights | C++, Python **September 2021 – December 2021**

- Designed and engineered physical piano extension to illuminate LEDs while playing, enhancing the playing experience
- Expanded capabilities by enabling the piano to guide players via LEDs and to play MIDIs with lights