

Kelvin Lin

Software / Data Engineer, Boston, Massachusetts, 02135

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<https://github.com/KelvinLinBU> - <https://medium.com/@kelvinlinBU>

EDUCATION

Boston University, College of Arts and Sciences, Boston, Massachusetts

December 2024

Bachelor of Arts in Computer Science, Minor in Business Administration and Management

WORK EXPERIENCE

Boston University, Boston, Massachusetts

September 2024 - December 2024

CS411: Software Engineering Teaching Assistant

- Guide and manage students in groups of 4 with final software engineering project requiring 2+ APIs, MongoDB or MySQL databases, proper containerization and orchestration, completed in an agile / scrum environment using Jira.
- Assist with creation of comprehensive unit testing / proper exception handling, extensive information security, complete documentation, and architecting model-view-controller (MVC) software design patterns.
- Hold 4+ hours of office hours and facilitate 2 lab periods in addition to assessment and administration for 15+ weeks.

PTC Onshape, Boston, Massachusetts

June 2024 - August 2024

Data Systems Engineering Intern

- Developed a robust program for large-scale de-duplication of educational accounts in company's Salesforce instance, achieving ~95% accuracy and processing 80,000+ accounts.
- Scraped 25,000+ data points from Google Maps autonomously through developed Python web scraping script for the field population of over 4000+ strategic academic institutional accounts.
- Engineered a comprehensive Python web-scraping script utilizing Pandas and fuzzy matching algorithms to automate mass verification of unverified educational accounts, resulting in a 90% reduction in processing time.
- Designed highly customizable Google Looker looks and dashboards to support the company's community college initiatives, enabling enhanced data visualization and decision-making for department-wide educational programs.
- Directed creation and marketing of an Onshape research event and design challenge at Boston University's EPIC Lab, leading to increased collaboration and partnership within the university space and among research stakeholders.
- Authored and published a 1,200+ word research blog by collaborating with relevant internal stakeholders and PTC Education's external partners.
- Proposed and implemented LookML solution for case sensitivity of filter criterion for PTC Looker dashboards.

Community Boating Incorporated, Boston, Massachusetts

May 2023 - September 2023

Front Office Administrator

- Created patron accounts for 50+ clients per week, inputting data into a MySQL database with close to 95% accuracy

CERTIFICATES

Python for Data Science, AI & Development, Creating Business Value with Data and Looker Specialization, Tableau Essentials, Leading Organizations, ZoomInfo Certification, Power BI Essentials, Operations Analytics, R for Data Science

PROJECTS

NewsAid Software

January 2024 - May 2024

- Conceptualized and led backend development of NewsAid, an innovative news generation tool utilizing the OpenAI ChatGPT API and Web Share API, transforming news article creation with emphasis on simplicity and customization.
- Managed a team of 4 engineers from inception to delivery applying Trello for project management, ensuring effective task allocation, progress tracking, and collaboration to meet deliverable deadlines and deliver a high-quality product.

CS Education in Massachusetts School Districts

September 2023 - December 2023

- Led data extraction efforts incorporating a Scrum workflow to construct 3+ number of models for analysis of correlations between funding and CS performance and generated 3 reports on areas requiring improvement.
- Determined with various Python clustering methods, school districts where Computer Science participation were underperforming and owned improvements and modifications to increase participation by 15%.

SKILLS

Hard: Python, Pandas, Matplotlib, Git, Looker, Salesforce, Excel, PowerPoint, Onshape, Go, C, Java, Kotlin, Power BI, R
Soft: Management, Technical Writing, Problem Solving, Communication, Collaboration, Leadership, Initiative, Self-Starter