Kelvin Lin

Software / Data Engineer, Boston, Massachusetts, 02135

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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 full-stack software engineering project requiring 2+ RESTful APIs, MongoDB, XML, or MySQL databases, proper Docker containerization and Kubernetes orchestration, integration with Google data analytics where applicable, completed in an agile / scrum environment using Jira.
- Assist with creation of comprehensive unit testing /smoke 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 of 50 students in addition to assessment and administration.

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.
- Queried company databases using SQL and Excel to query and analyze data from company data warehouse, performing extraction, transformation, and loading (ETL) tasks to support data-driven decision-making.
- Authored and published a 1,200+ word research blog by collaborating with relevant stakeholders and 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, inserting data into a MySQL database with SQL commands.

CERTIFICATES

AWS Certified Cloud Practitioner, Creating Business Value with Looker Specialization, Tableau Essentials, Leading Organizations, Pair and Mob Programming, Power BI Essentials, Java Data Structures, R for Data Science, Docker for Devs

PROJECTS

Kelvin's RESTful Accounting API   September 2024 - December 2024
- Developed Java-based, and MIT licensed accounting API adhering to RESTful principles and MVC design patterns to provide professional and customizable PDF generation for 4 unique financial statements with CRUD operations.
- Integrated with MySQL databases for data persistence, Docker containerization for simple deployment, Spring Boot Framework to ensure scalable implementation, iText API for client customizability, and Maven for build management.

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.

SKILLS

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