

BRYAN LEE

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EDUCATION

University of Minnesota, Twin Cities

Minneapolis, MN

Bachelor of Science in Computer Science, CGPA: 3.85/4.00

Aug. 2022 – May 2025

Coursework: Data Structures & Algorithms, Database Design, Software Eng., Operating Systems, Program Design & Development

EXPERIENCE

BFC Software Inc.

May 2024 – Present

Data Engineer Intern

Minneapolis, MN

- Designed & deployed ETL data pipelines using **Apache Airflow**, **Amazon Web Service (AWS)**, **PostgreSQL**, & **Python** to integrate and process inventory data from 20+ data warehouses, leading to a **35%** reduction in data processing time.
- Utilized **AWS Elastic MapReduce (EMR)** & **Apache Spark** to optimize large-scale data processing for front-end reporting, achieving an increasing **30%** performance for advanced inventory analytics.
- Automated the categorization of food items compliant with FSMA standards using Large Language Models (LLMs) in **AWS Bedrock**, enhancing traceability and reducing contamination time by **40%**.
- Built and deployed analytical data models in **Data Build Tool (DBT)**, enhancing data accuracy for customer inventory insights in interactive dashboards built in **Preset** & **React Native**, leading to an annual cost saving of **\$300k**.

University of Minnesota - School of Physics and Astronomy

Feb 2023 – Present

Software Developer, Astrophysics Undergraduate Research Assistant

Minneapolis, MN

- Led an interdisciplinary team to develop and deploy a **React.js** web application using **Docker** that facilitates real-time computation of spectral statistics and dynamic graph generation, enhancing research efficiency by **60%**
- Modernized and revamped data infrastructure of collected orbit data from NASA's Fast Auroral Snapshot Explorer (FAST) satellite, automating the migration of **120+ million rows** into a **MySQL** database and reducing data retrieval time by **80%**.

University of Minnesota - Distributed Computing Systems Group (DCSG)

March 2024 – Present

Undergraduate Research Assistant

Minneapolis, MN

- Contributed to research and development on Electrocardiogram (ECG) compression algorithms for pacemakers for enhanced cardiac monitoring capabilities, achieving a **20%** reduction in data transmission size.
- Developed an ECG data management system in **Python** using pandas and numpy, reducing ECG data processing time by **30%** and increasing analysis efficiency by **25%**.

Genus Technologies Inc.

May 2024 - August 2024

Solutions Analyst Intern

Minneapolis, MN

- Improved system maintainability by **25%** using Object-Oriented Principles to modernize legacy systems with **C#** & **VB.NET**.
- Refactored codebases to increase robustness and collaborated with cross-functional teams, leading to a cost saving of **\$7,000** through seamless integration and deployment.

Keysight Technologies

May 2023 – August 2023

Software Development Engineer Intern

Penang, Malaysia

- Led the end-to-end development of a web application using **C#** and **ASP.NET** to automate inventory tracking and provide real-time inventory insights, driving a **30%** reduction in inventory discrepancies.
- Enhanced operational efficiency in production lines by **50%** by centralizing inventory data into a **SQL Server** using **C#**.

PROJECTS

AIMSES | React.js, TypeScript, C++, Python, Node.js, Express.js, Docker, MySQL

September 2023 – Present

- Developed **React.js** web app for computing spectral statistics and generating dynamic graphs for magnetospheric research
- Streamlined deployment process using **Docker**, for enhanced accessibility across research environments.

Uber Analytics Dashboard | Python, SQL, Mage, Google Cloud Platforms (GCP)

April 2023 – May 2023

- Developed end-to-end **ETL** analytics solution using **Mage** & **GCP BigQuery** for ride data retrieval and analysis
- Leveraged **GCP BigQuery** as a data warehouse for efficient data ingestion, transformation, & **Looker Studio** for data visualization

TECHNICAL SKILLS

Languages: C#, C++, C, JavaScript, TypeScript, Python, Java, SQL, IDL, HTML/CSS, Ocaml

Frameworks: React Native, React.js, Django, ASP.NET, Flask

Developer Tools: Docker, Git, Apache Airflow, Apache Spark, Apache Hadoop, DBT, MySQL, PostgreSQL, Preset, Postman, Kubernetes, AWS (Amazon Web Services: MWAA, S3, Redshift, EMR, Bedrock), GCP (Google Cloud Platform: Big Query, Looker Studio)