

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, Database Design, Software Eng., Operating Systems, Program Design & Development

TECHNICAL SKILLS

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

Frameworks: React.js, Node.js, Express.js, Django, ASP.NET, Flask

Developer Tools: Docker, Git, Apache Airflow, Apache Spark, Kubernetes, MySQL, PostgreSQL, AWS (Amazon Web Services), GCP (Google Cloud Platform), Azure

EXPERIENCE

BFC Software Inc.

May 2024 – Present

Data Engineer Intern

Minneapolis, MN

- Orchestrated end-to-end ETL pipelines using **Apache Airflow & Amazon Web Services (AWS)**, to streamline data ingestion and transformation from AWS Redshift & S3, reducing data processing time by **50%**.
- Designed and deployed analytical data models in **DBT**, enhancing data accuracy for customer inventory discrepancy insights delivered via **Preset's** interactive dashboards, leading to an **annual saving cost of \$300k**.
- Leveraged **AWS EMR Clustering** and **PySpark** to optimize large-scale data processing, achieving a **30%** performance increase and scalability for advanced analytics.

Genus Technologies Inc.

May. 2024 – Present

Solutions Analyst Intern

Minneapolis, MN

- Led the modernization of legacy systems using **C#** and **VB.NET**, resulting in a **30%** improvement in system maintainability metrics.
- Refactored existing codebases to improve robustness and collaborated with cross-functional teams to seamlessly integrate and deploy updated solutions, leading to a **\$7,000 cost saving**.

University of Minnesota - Distributed Systems Computing Group

March 2024 – Present

Undergraduate Research Assistant

Minneapolis, MN

- Contributed to research and development on Electrocardiogram (ECG) compression algorithms for pacemakers to enhance cardiac monitoring capabilities, developing a data management and plotting tool using **Python** to manage test ECG data.

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, deploy, test, and maintain a **Docker-deployed React.js** web application that facilitates real-time computation of spectral statistics and dynamic graph generation tailored to research requirements of space physicists.
- Modernized and revamped data infrastructure of collected orbit data from **NASA's Fast Auroral SnapshoT Explorer (FAST) satellite**, automating the migration of over **120+ million rows** into a MySQL database and reducing data retrieval time by **60%**.

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 monitoring, driving a **30% reduction in inventory discrepancies**.
- Developed a **C#** application to streamline and optimize the centralization of inventory data into SQL Server, enhancing data handling and operational efficiency by **50%**.

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 auroral 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, and **Looker Studio** for data visualization