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, developed and deployed ETL data pipelines using **Apache Airflow**, **Amazon Web Service (AWS)** & **Python** to integrate and process inventory data from multiple warehouses.
- 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** and **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.
- 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 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 to enhance cardiac monitoring capabilities, developing a data management and plotting tool using **Python** to manage test ECG data.

Genus Technologies Inc.   May 2024 - August 2024
Solutions Analyst Intern   *Minneapolis, MN*
- Improved system maintainability by **30%** 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)