Jayansh Bagga

jbagga3@uwo.ca | London, Ontario, N6G 2M6, Canada | (226) 998-9353 | LinkedIn | Portfolio

EDUCATION

B.Sc - Specialization in Computer Science with Minor in Software Engineering at University of Western Ontario   *Class of 2027* | London, Ontario
- Western International Scholarship of **($25,000)**, RBC Overhaul Case Competition **(Top 5).**
- **Relevant Coursework:** Information Systems, Fundamentals I (Python), Fundamentals II (Java), C Unix and Software Tools, NLP and Data Analysis, Data Structures and Algorithms (DSA), Discrete Math, Computer Systems & Architecture.

WORK EXPERIENCE

Plan International/ Tech for Social Impact(TSI)   **London ON, Canada**
Developer   *October 2025 - Present*
- Selected for TSI's Plan International developer team to modernize a global financial reporting system supporting **€1 billion**+ in annual program spending across **80+** countries.
- Led reverse engineering of legacy Visual Basic and Excel code, implementing Python, Pandas, SQL Server, and FastAPI pipelines projected to cut month-end close times by up to **40%** and support **2,000+** stakeholders.
- Refactored workflows and replaced hardcoded logic, delivering a **3x** boost in reporting scalability and error reduction.

Carlo Romano   **Italy/ India**
Data Analyst Intern   *June – September 2024*
- Completed a 16-week internship at an esteemed Italian leather and shoe manufacturer company in integration with the Italy office.
- Developed effective data analysis projects using Python and SQL to automate the validation of User Experience and Feedback.

Sentiment Analysis on Carlo Romano's Indian Online-Shopping Customer Data.
- Developed a Natural Language Processing pipeline to automate the classification & analysis of over **20,000** customer feedback records.
- Processed large datasets to identify key trends in customer sentiments in the Indian market online-shopping users, enabling data-driven decision-making using python and libraries like Natural Language Toolkit (NLTK) and Pandas, increasing reporting speed by **30%.**
- Integrated SQL to manage and query the structured data, enhancing operational efficiency by delivering actionable insights to the marketing and product teams to perform analysis into and present to the upper-management teams.

Outlier AI   **California, USA**
Generalist Prompt Engineer   *September 2024 - May 2025*
- Developed and refined AI models through effective prompt engineering, contributing to various projects aimed at exploring innovative applications of artificial intelligence, resulting in a **10% increase** in the efficiency of model output accuracy.
- Collaborated with global research and engineering teams to develop generative AI solutions for diverse industries; contributed to productionizing NLP use cases, supporting enterprise deployments in a market where only **5%** of custom AI tools reach full production.

PROJECTS

Savify Fintech App   **London, Ontario**
Founder | Technical Lead   *January 2025*
Project Link: https://savify.ca/
- Leading a **six-member** team in building a next-generation FinTech app focused on goal-based savings and personal financial wellness through machine learning insights and gamified user engagement.
- Architected and deployed the MVP website as a launchpad for early traction, showcasing key features like automated savings, spending analytics, and personalized goal tracking. Projected to onboard **500+ users** in the first month, scaling to **1,500+** active users post full backend integration and app release.
- TechStack utilized [React Native, Node.js, Express.js, MongoDB, Google OAuth, JWT Authentication, Postman, Styled Components, Expo EAS for cross-platform builds, and CI/CD pipelines for streamlined updates]

Western Digital Society   **London, Ontario**
Member | Hacker   *October 2023*
Project Link: https://wds-overhaul-group-hakurei.vercel.app/
- Participated in various case competitions with banks and tech startup sponsorships and prizes.

InkLink – RBC X WDS Overhaul Hackathon Case Competition (Top 5).
- Conducted a thorough debugging of HTML & UI/UX code to enhance the functionality and aesthetic appeal of the website.
- Developed a comprehensive presentation encompassing both business and technical strategies to improve the company.

EcoVille Mobile App   **New Delhi, India**
Co- Founder | Front End Engineer   *June 2021*
Project Link: https://www.youtube.com/watch?v=KbLU1I4Y-rY&t=41s
- Led full-stack development of an AR-enhanced mobile reporting platform in collaboration with **University of Sydney**, aligning with SDG 13: Climate Action & Environmental Sustainability, earning **top 5** distinction among **200+** national hackathon teams.
- Designed Environmental Nuisance reporting with Geotagging feature, with an uplink to the local Neighborhood Watch, to report illicit activities that generated undue pollution. Tried to introduce an **in-app currency** redeemable at local stores, did not materialize.

ADDITIONAL INFORMATION

Awards: CII's Most Popular Hackathon – National Winner | Founding Board Member – Research Association of Science Students |
Skills: Java | Python | C | C++ | OOP | UI/UX | App Dev | SQL | Prompt Engineering | Web Dev | C Programming | JavaScript | Unity | Network Design | Frontend | Backend | MongoDB | Testing | AWS | Full Stack Development | BCrypt | React Native | Node.js | REST APIs | FastAPI | LLMs | Matplot | Natural Language Toolkit (NLTK) | Postman | JWT Authentication | English (Native Proficiency), Spanish, Hindi (Native Proficiency) |