Tushar Jindal

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Education

University of British Columbia — Vancouver, BC
Bachelor of Science in Mathematics, Computational Stream — *Graduating May 2027*

Experience

Telegram Developer Intern — December 2025 – Present
The F Word AI* — *Vancouver, BC*

- Designing, developing and deploying robust telegram bots using the telegram bot API.
- Making user-friendly full-stack mini apps using telegram web apps SDK.
- Building secure backends using RESTful APIs, database design, and user authentication.

Programming and Mathematics Tutor — December 2022 – Present
Self Employed — *Vancouver, BC*

- Offered group and one-on-one math and programming tutoring to middle and high school students.
- Personalized lesson plans were created to assist students in understanding difficult ideas, enhancing their ability to solve problems, and developing a solid foundation in logic and coding.
- Algebra, calculus, statistics, and programming languages like Python and Java were among the math subjects I taught.

Projects

Code Lantern | *Python, Javascript, FastAPI, Gemini-API, Cytoscape.js, React.js*

- Created an *AI-powered architecture analyzer* that uses uploaded projects to reconstruct dependency graphs, file structures, and function relationships.
- Developed a *hybrid parser* for Python, JS, and TSX that combines regex and AST to enhance parsing stability and facilitate more in-depth static analysis.
- A responsive JS frontend with drag-drop uploads, interactive views, and explanation panels was delivered along with REST APIs.

Resume Optimizer | *Python, FastAPI, spaCy, scikit-learn, React, NLP*

- Created a resume intelligence engine that uses NLP to perform ATS checks, section detection, skill extraction, and formatting analysis
- For clean text extraction and reliable handling of various resume layouts, *spaCy NLP + PyPDF2/python-docx preprocessing* was implemented
- Created a *TF-IDF + cosine similarity scoring model* with a React dashboard that displays relevance scores and recommendations for enhancements.

ASL Recognition | *Python, TensorFlow, Flask, React, Computer Vision*

- Created a real-time ASL recognition system with *99 % + accuracy* using a TensorFlow CNN trained on carefully selected datasets.
- Developed a webcam inference pipeline that uses batching, preprocessing, and a Flask-based model to make responsive predictions.
- Developed a React user interface for interactive model testing, uploads, and real-time gesture inference.

Technical Skills

Languages: Java, Python, C/C++, SQL (Postgres), JavaScript, HTML/CSS, R
Frameworks: React, Node.js, Flask, JUnit, WordPress, Material-UI, FastAPI
Developer Tools: Git, Docker, Google Cloud Platform, VS Code, Visual Studio, PyCharm, IntelliJ, Eclipse
Libraries: pandas, NumPy, Matplotlib

Achievements/Certifications

HackCamp 2025 (nwPlus): Collaboratively built Code Lantern in a team of 3, focusing on rapid prototyping and AI-powered developer tooling.
Kickstart 2025 (UBC Biztech): A week-long startup competition where we built Ezbooks, a reciept parsing software for small businesses using AWS Textract.
Certifications: 15+ tech certifications