Daman Kumar

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Education

University of Guelph — **Sep 2023 - Present**
Bachelor of Computing, Software Engineering **(Co-op)** — *Guelph, ON*

Projects

Bhagvad Geeta Chatbot | *Python3, React.js, The Aum API, Tailwind* — **May 2025 - Present**
- **A chatbot** powered by The Aum API, designed to answer spiritual questions based on Bhagavad Gita's teachings. It utilizes LangChain for document retrieval and MongoDB for efficient data storage.

Code Comprehension | *React.js, Python3, Flask, Gemini, TailwindCSS* — **May 2025**
- **Developed an AI-powered application** leveraging Google's Gemini LLM to parse and summarize code across multiple languages into clear, plain-English explanations, streamlining onboarding and reducing learning curves for students and developers.

Jobs Vacancies - Data Analysis Project | *Python, Census Data, Agile methods, Matplot, seaborn* — **Feb 2024**
- **Led a collaborative team project** analyzing Canadian job vacancies across provinces, occupations, age groups, and geographies using Python, Matplotlib, and Seaborn, uncovering key labor-market trends and delivering actionable visual reports that enhanced strategic workforce planning

Similar Sites Recommender Chrome Extension | *Chrome Dev Tools, JavaScript, API* — **Jan 2025**
- **Developed a Chrome extension** for real-time site analysis and integrated the SimilarWeb API to algorithmically identify and recommend alternative websites with equivalent content and features, empowering users to locate free or lower-cost services in place of premium subscriptions .

Experience

Software Developer — **May 2025 - Present**
As You Like Tours and Travels — *Kitchener, ON*
- **Integrate Amadeus** APIs to enable real-time search for flight and tour packages, streamline end-to-end booking workflows, and offer cost-effective travel options
- **Optimize** Node.js/Express backend with caching strategies and asynchronous processing to reduce API response times and **enhance platform reliability**.
- **Collaborate** cross-functionally with UX/UI designers and QA engineers to deliver responsive React interfaces, implement CI/CD workflows, and support scalable platform growth.

Research Assistant — **May 2025 - Aug 2025**
University of Guelph — *Guelph, ON*
- **Design** and **conduct** user studies to evaluate the impact of heart-rate variability (HRV)–based stress monitoring on daily activities.
- **Preprocess**, analyze, and visualize physiological and self-report data using Python and R, uncovering key patterns in stress responses.
- **Compile** research findings into technical reports and presentations, informing recommendations for enhancing wearable **stress-monitoring interfaces**.

Teaching Assistant — **Sep 2024 - May 2025**
University of Guelph — *Guelph, ON*
- **Mentored 500+ students** in Programming and Intermediate Programming courses through weekly office hours and targeted concept reviews, boosting assignment completion rates to 95% and earning consistent positive feedback.
- **Developed an automated test harness** for student assignments using industry-standard frameworks, reducing instructor grading time by 40% while improving submission accuracy and turnaround speed.
- **Collaborated with faculty** to refine course curriculum and design lab exercises for 100+ mentees per semester, enhancing engagement and achieving a 4.8/5 average satisfaction rating on student evaluations.

Acheivements

- Achieved **Higher Distinction in Computer Science** and graduated as the top student in my cohort, demonstrating exceptional mastery of programming concepts and academic excellence.
- **Won 3rd prize** at the 2025 Google Developer Student Clubs **Hackathon** by designing and developing an innovative sign-language communication tool, significantly enhancing accessibility for non-hearing users.