Niagara Falls
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ASHU CHAUHAN

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EDUCATION

BSc in Computer Science	**Brock University**	**September 2020 – July 2025**

- **Certificates:** Meta Front-End Dev, Meta JS Programming, Meta Version Control
- **Tools:** Git, GitHub, PyCharm, Cursor, VS Code, IntelliJ, CLI

EXPERIENCE

Pro Shop Team Lead	**Grand Niagara Golf Club**	**Apr 2024 - Dec 2024**

- **Introduced an updated tee sheet software** and trained 5+ staff, reducing manual errors by 30%.
- **Redesigned workflow procedures**, cutting admin overhead by 70% and improving tee time accuracy.
- **Processed 150+ daily POS transactions**, ensuring accurate payment handling and reducing discrepancies by 25%.
- **Checked in 200+ golfers daily**, minimizing wait times and optimizing course flow.
- **Maintained a 500+ member database**, streamlining membership adjustments and improving data accuracy by 25%.

IT Support Technician (Co-op)	**Government of Canada**	**Sep 2022 - Dec 2022**

- **Managed 100,000+ mobile devices** across federal branches, preventing device downtime completely.
- **Systematically performed weekly infrastructure tests** on critical servers, detecting issues early and preventing outages nationwide.
- **Performed back-end maintenance** to ensure 99.9% server uptime during peak operational hours.
- **Resolved 10+ high-priority IT tickets/week**, reducing average resolution time by 25%.
- **Coordinated with large-scale vendors** in weekly meetings, ensuring alignment on technical needs of our clients.

PROJECTS

CourseMix	**Next.js / React / TypeScript**	**2025**

- **Engineered a custom data import script** that scraped over 3,500 Brock University course entries, creating a centralized database for real-time course searches and streamlined registration.
- **Implemented a user-friendly registration system** with interactive schedule previews, reducing average registration time from 10 seconds/course to 2 seconds/course.
- **Optimized Next.js SSR and database queries** to cut page load times from ~ 2.5s down to under 1s, improving time-to-interactive by 60%.
- **Mapped out essential features for a degree progress tool**, defining 6 major milestones over 3 months, delivering incremental updates in sprints under an Agile framework, and aligning cross-functional stakeholders.

Gastimator	**Next.js / React / TypeScript**	**2024**

- **Developed a full-stack web application** that accurately estimates trip fuel costs within a 5% margin of error, enabling users to budget and plan effectively.
- **Implemented a custom algorithm** that integrates Google Maps Distance Matrix APIs, fuel efficiency data, and real-time gas prices to deliver near-instant cost calculations.
- **Optimized Next.js server-side rendering and caching strategies**, reducing load times by 30% and ensuring seamless user interactions under heavy traffic.
- **Enhanced form validation and error handling** to address incomplete or ambiguous addresses, cutting user input errors by 40%.