# Dev Punjabi

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## EDUCATION

**University of Toronto** — Mississauga, Ontario
*HBSc - Honours Bachelors of Science in Computer Science* — *Sep. 2021 – Apr. 2026*
- Operating Systems, Scalable Computing, Neural Networks and Deep Learning, Principles of Computer Networks

## EXPERIENCE

**Periscope Capital** — May 2024 – Present
*Full-Stack Software Developer* — *Toronto, Ontario*
- Built and maintained modules using C#, DevExpress WinForms, and Entity Framework, combining real-time data validation with optimized MySQL database workflows to support high-volume financial operations.
- Developed an automated pipeline to track security reorganizations through scheduled tasks, data viewers, validators and reporting features that delivered daily trader-specific deadline alerts, greatly reducing costly manual errors.
- Redesigned backend access control architecture with role-based permissions and granular module access, integrating Active Directory authentication to ensure consistency across trading and operations systems.
- Engineered data import/export, replication and transformation workflows to integrate external APIs, broker-specific reporting, AWS infrastructure and financial platforms (Bloomberg Terminal) into Periscope's backend.
- Contributed 200+ pull requests with bug fixes, feature implementations, and enhancements.
- Authored internal documentation including developer onboarding guides, technical project documentation and the initial drafts of the Written Information Security Policy (WISP) and Business Continuity Plan (BCP).
- Recognized for strong collaboration, problem-solving, and communication while partnering with operations, investment, and development teams to deliver impactful solutions.

**Scotiabank** — Jun. 2023 – Aug. 2023
*Software Developer Intern – Global Finance & Risk Technology Team* — *Toronto, Ontario*
- Developed an internal automation tool to streamline the promotion of scripts, files, and DataStage exports across multiple Linux environments.
- Engineered Bash and KornShell scripts for error checking, object import/export, secure file transfer (SFTP), and file permission management.
- Integrated tool execution with both ad-hoc runs and scheduled jobs via AutoSys, enabling flexible deployment.
- Reduced manual errors and significantly improved efficiency and security of the promotion process, enhancing overall system reliability.

## PROJECTS

**NBA Statistics Discord Bot** – *Python, Discord.py, nba_api, NumPy*
- Users are able to communicate with the bot by prefixing their commands with "$" to retrieve game logs, scoreboards, averages, and regression and statistical models within any Discord server where the bot is active.
- Leveraged the nba_api to fetch data from API endpoints. Then utilized data manipulation libraries, including NumPy, Pandas, Matplotlib, dateutil, and time, to transform raw data into command outputs and models.
- Implemented asynchronous functions and the decorator and command design patterns to efficiently organize, group, encapsulate, and respond to commands, improving code readability and aligning with user use cases.

**Personal Portfolio Website** – *Next.js, React, TailwindCSS, DaisyUI, TypeScript, Vercel*
- Developed a responsive and accessible personal portfolio using Next.js and TailwindCSS, featuring modular components and theme-aware UI powered by DaisyUI for consistent light/dark mode support .
- Integrated reusable layouts, route-based navigation to maintain persistent headers, content sections, and global theming across all pages.
- Optimized build and deployment workflows through Vercel's continuous integration, ensuring seamless updates.

## TECHNICAL SKILLS

**Languages**: Python, C, C#, Java, JavaScript, SQL, HTML/CSS, Bash, KornShell, Make, RISC Assembly
**Frameworks**: React, React Native, NodeJS, Flask, JUnit, DevExpress, Entity Framework, Prisma
**Databases**: MySQL, Microsoft SQL Server, Oracle Databases, PostgreSQL
**Cloud Services & Infrastructure**: AWS (EC2, S3, Lambda), Docker, AutoSys, Vercel
**Developer Tools**: Git, Jira, Visual Studio, SQL Server Management Studio, IBM DataStage, Bloomberg API
**Libraries**: NumPy, pandas, Matplotlib, scikit-learn, TensorFlow