Barkat Singh

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Education

University of Toronto — Sep 2019 – Aug 2024
HBSc: Applied Mathematics Major, CCIT Major — *Mississauga, Canada*

Technical Skills

Languages: Python, JavaScript ES6, TypeScript, Java, HTML/CSS, MongoDB, MySQL

Frameworks: Node.js, Express.js, Next.js, React.js, Bootstrap, jQuery

Tools: Git, GitHub Actions, Figma, Adobe CC, Postman, Firebase, GCP, Passport.js, EJS, Balsamiq

Experience

Project Lead — Oct 2023 – May 2024
UofT Web Dev Club — *Mississauga, Canada*

- Directed 2 full-stack projects using **Node.js** and **Express.js**, reducing development costs by 15% and accelerating delivery timelines by 30%, saving 50+ team hours.
- Improved team productivity by 24% through **agile methodologies** (SCRUMs, coding sprints) and effective communication, reducing meeting times by 10%.

Web Developer & Designer — Sep 2022 – May 2023
Humber College North — *Etobicoke, Canada*

- Developed responsive web apps using **HTML/CSS**, **JavaScript**, and **jQuery**, increasing engagement by 18% and reducing support inquiries by 10%, saving 15+ staff hours monthly.
- Redesigned UI with **Adobe XD**, **Figma**, and **Bootstrap**, raising usability scores by 25% and improving customer satisfaction.
- Optimized data retrieval with **Firebase/GCP** and **MySQL**, reducing infrastructure costs by 14% and operational latency.

Junior Software Engineer Intern — May 2021 – Jul 2021
Jupitice – AEREN IT Solutions — *Chandigarh, India*

- Enhanced website load speeds using **Postman** for API testing, reducing bounce rates by 19.6% and improving customer retention.
- Refactored codebase with **Git** version control, lowering technical debt by 20% and improving deployment efficiency by 11.7%, saving developer hours.

Projects

FilmBucket | **Project Lead & Fullstack Developer** — Feb 2023 – Apr 2023

- Developed an IMDb-inspired app using **Node.js**, **EJS templates**, and **Balsamiq** wireframes, improving page load times by 26%, increasing user retention by 12%, and reducing server hosting costs by 10%.
- Implemented **Passport.js** authentication, reducing unauthorized access incidents by 20% and saving 15 hours/month in maintenance.

RecipeRoadmap | **Project Lead & Fullstack Developer** — Dec 2022 – Feb 2023

- Optimized **RESTful APIs** with **Node.js**, **Express.js**, and **MySQL**, reducing response times by 20%, enhancing user experience, cutting infrastructure costs by 12%, and decreasing drop-off rates by 9%.
- Revamped UI with **Bootstrap**, improving usability scores to 88% and reducing customer onboarding time by 30%, saving support resources.

Butterfly | **Fullstack Developer** — Oct 2022 – Dec 2023

- Launched a social media platform using **Node.js**, **Express.js**, and **Firebase Authentication**, onboarding 200+ users in the first month, increasing engagement by 14%, and contributing to a projected 8% revenue increase.
- Refactored codebase with **MVC architecture** and **Firestore** integration, reducing future development time by 17% and saving 20+ developer hours per sprint.