

Harsh Sharma

SOFTWARE DEVELOPER

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Education

University of Calgary

Calgary, Canada

B.S. IN SOFTWARE ENGINEERING | GPA: **3.83/4**

Graduation Date: Apr 2024

- **Activities:** Engineering Student Society, Schulich UAV Competitive Airplane Racing and Computer Science Programming Society

Work Experience

CheapEats

Toronto, Canada

FRONT-END SOFTWARE ENGINEERING INTERN

Jul 2020 - Present

- Increased **daily traffic by 10%** by redesigning the website with the UI/UX team, built it with GatsbyJS, GraphQL, React MDX, JavaScript and JSX
- Improved team productivity by 25% by changing weekly check-ins to daily check-ins to improve communication between developers

University of Calgary

Calgary, Canada

UNDERGRADUATE RESEARCH ASSISTANT

May 2020 - Aug 2020

- **Improved the efficiency** of a nerve regeneration device **by 13%** by developing a simulation model using COMSOL Multiphysics
- Reduced testing time from **6 months to 2 weeks** by testing **25 different** electrode designs in a computer simulation instead of constructing each design separately
- The COMSOL simulation reduced the **optimization cost by \$40 000** by testing different materials for electrode design, saving money on evaluating the efficacy of each material individually in conducting electricity across a nerve

AASEE (Advancement of Science and Engineering Education)

Calgary, Canada

FRONT-END WEB DEVELOPER

Jan 2020 - Jun 2020

- **Increased site traffic by 56%** by directing a team of 4 developers to make the website user-friendly and cross-platform compatible
- Developed **5 websites** with designs created from PSD/AI mock-ups and compositions using Wordpress, HTML, React, JSX, CSS, jQuery, and JavaScript

Technical Projects

Belb | [Code](#)

REACT, HTML, CSS, JAVASCRIPT, JSX, RESTFUL API, NODE, GRAPHQL, MONGO

- Developed a full stack web application using React, with Yelp Fusion API, React hooks and router, which allows the user to locate local businesses and read reviews by previous customers.
- Currently Implementing a client-server protocol to have a user authentication system

Flash Chat | [Code](#)

SWIFT, XCODE, COCOAPODS, GOOGLE FIREBASE, CLOUD FIRESTORE, NOSQL, NLP, CREATE ML

- Developed an anonymous iOS messaging application which allows user to create an account and send messages anonymously and all the data is stored on **Google Firebase, a NoSQL cloud database**, without ever showing the user who they are texting
- Currently adding an **NLP model** using Create ML which allows the user to detect the sentiment behind each message

Lox - Tree-Walk Interpreter | [Code](#)

JAVA

- Created a **Tree-Walk interpreter** from scratch, only using the Java Standard Library, which supports object-oriented programming, constructors, recursive descent parsing, superclass and inheritance

Skills

Languages Java, Python, JavaScript, jQuery, SQL, HTML, CSS, Swift, MongoDB, LaTeX

Technologies Xcode, React, Node, GatsbyJS, GraphQL, MySQL, Git, Github and Google Firebase

Extracurricular Activities

Global Competitive Programming Association (GCPA)

Calgary, Canada

FOUNDER AND PRESIDENT

Nov 2019 - Present

- Founded GCPA, with the goal of creating an organization which could host competitions across an entire province and is currently comprised of more than 500 members from 4 different universities
- Organized 3 hackathons with an average prize/scholarship pool of \$2500 and had an average attendance of 150 members
- Hosted weekly programming sessions with an average attendance of 40 students where we walk through coding problems and their solutions

Hackathons Awards

Hackathons *1st Place*, EUvsVirus Hackathon - Other, Hack:now Hackathon and Hackerarths Hackathon

Case Competitions *1st Place*, KPMG Ideation Challenge Nationals