

Harsh Sharma

SOFTWARE DEVELOPER

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Technical Projects

Belb | Code

REACT, NODE, HTML, CSS, JAVASCRIPT, JSX

- Developed an full stack web application using **React**, with the help of Yelp Fusion API, **React hooks** and React router, which allows the user to **locate local businesses** and read reviews left by previous customers

News Aggregator | Code

PYTHON, DJANGO, HTML

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Flash Chat with Sentiment Analysis | Code

SWIFT, XCODE, GOOGLE FIREBASE, CREATML

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Work Experience

University of Calgary

Calgary, Canada

UNDERGRADUATE RESEARCH ASSISTANT

May 2020 – Aug 2020

- Improved nerve regeneration device's **efficacy by 13%** by developing a simulation model using COMSOL Multiphysics and altering the coordinates and composition of the electrodes within the device
- 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

FULLSTACK DEVELOPER

Jan 2020 - Present

- Increased **site traffic by 110%** by directing a team of **4 developers** to make the website user-friendly and cross platform compatible
- Developed **5 websites** with user interfaces created from **PSD/AI** graphic mock-ups and compositions using HTML, CSS, jQuery, and JavaScript

Global Competitive Programming Association

Calgary, Canada

FOUNDER AND PRESIDENT

Nov 2019 - Present

- Created a massive network of competitive programmers across Alberta by joining **4 different universities** under one banner to create an organization with more than **500 members**
- Organized **3 hackathons** with an average prize/scholarship pool **\$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 and Awards

2020 **1st place overall**, EUvsVirus Hackathon - Other

Remote

2020 **1st place overall**, Hack:now Hackathon

Remote

2020 **1st place overall**, Hackerarths Hackathon

Remote

2020 **1st place overall**, KPMG Ideation Challenge **Nationals**

Toronto, Canada

Skills

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

Frameworks Xcode, React, Node, GatsbyJS, Git, Github

Education

University of Calgary

Calgary, Canada

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

Graduation Date: Apr 2024

- Activities:** Computer Science Programming Society, **Women in Science and Engineering**, Engineering Student Society, Schulich UAV Competitive Airplane Racing and Haskayne Consulting Club