BRIJENDRA NAG

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Skills

Languages:

JavaScript, C, C++, Node.js, Java, Python, Racket, SQL, PHP, Shell, HTML5, CSS3

Tools:

MVC, Backbone.js, React.js, Unix, Git, Android Studio, Unity 3D, Heroku, MongoDB, jQuery, Mongoose, BeautifulSoup

Education

University of Waterloo,

Bachelor of Computer Science (Sept 2016 – Apr 2021)

Activities: CS Club, Pure Math Club, UWMUN Club, Waterloop, MathSoc.

Relevant Coursework: Object Oriented Software Development, Algorithm Design and Data Abstraction, Logic and Computation.

Achievements

- Top 15% in CodeChef **Snackdown 2017,** an annual multi-round global programming tournament conducted by CodeChef.
- President's Scholarship of **Distinction**, awarded by University of Waterloo to students with admission averages of 95% or higher.

Volunteering

Everyone Grows Lucknow, India

Provided elementary education to underprivileged children, enrolled them into schools and raised funds for their fees.

Experience

Beyond One Eighty | Software Developer

May - Aug 2017

- Tech Used: Backbone.js, Node.js, Python, MongoDB, Mongoose, Shell/Bash, HTML, CSS, external plug-ins and, Node packages.
- Engineered the entire Havene portal, to manage, analyse and, process data related to important marine points, from scratch.
- Built a **search engine** to conduct complex, customized queries on **geospatial data** and designed a front-end to display search results.
- Modularized and reviewed the approval process, reduced database calls by 80% and improved loading speed exponentially.
- Streamlined DropBox cloud storage by writing a file indexer, using the **DropBox API**, to track data uploaded through all channels.
- Developed a Python BS4 scraper to synchronize metadata of over **700** blog posts and integrate it into the Havene information portal.

SpaceX Hyperloop: Waterloop | Admin Team

- Sponsorship relations management & Journalism role.
- My team successfully raised CA\$ 43,416 (220% of goal) through a Kickstarter campaign to fund the prototype **hyperloop pod.**

Projects

Caffeine > (7)

Mar 2017

Oct - Dec 2016

- Won 2nd Place at Start Hacks for designing a product which prevents drivers from dozing off, hence reducing accidents.
- Integrated 'Muse: the brain sensing headband', with an Android App via Bluetooth.
- Processed real-time brainwave & accelerometer data from Muse to track head-position in 3D and monitor brain activity.

Euphorify (7)



Jan 2017

- Engineered a web application for social media at PennApps XV which analyses your Facebook photos and generates a collage.
- Utilized the Facebook Graph API, Microsoft Emotion API and set up a **node server** with **AWS** to process sensitive data securely.
- Efficiently sorted the obtained images to generate a collage containing images of a particular emotion.

ReactOnFly ()

Nov 2016

- Chrome extension built at HackPrinceton which automatically 'reacts' to Facebook posts by detecting face reaction.
- Integrated the Facebook Graph API and wrote a Java script for continuous deletion of redundant data from the server.

Open Source Contributions

O/dropbox/dropbox-sdk-js

Jun 2017

- Refactored usage examples for DropBox API's JavaScript SDK.
- Cleaned up Git history, conflicts after collaborating with DropBox.