SAMPADA BHUJEL

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SKILLS

- **Front-End**: React.js, Three.js, React Native, Laravel, Data visualization (cube.js, Recharts), Electron.js
- **Back-End**: Node.js, MYSQL, MongoDB, Flask
- **Languages and Technologies**: JavaScript, TypeScript, Python, Java, Swift, AWS (EC2, EBS, S3)

EXPERIENCE

MYAAMIA CENTER, MIAMI UNIVERSITY   August 2022 – Present
Full-Stack Developer | Graduate Assistant

- Lead Developer of ILDA, a dictionary for indigenous languages, developing enhancements for web using Laravel, Android using Java and iOS using Swift
- Tech Stack: Laravel, JavaScript, Java (Android development), Swift (iOS development)

ALTERNATIVE TECHNOLOGY, NEPAL   February 2019 – July 2022
Software Engineer

- Initiated and developed an in-house tool that brought together scattered features to one configuration tool decreasing bugs and increasing overall efficiency by 30%
- Developed unique web 3D visualization customizations for a SAAS product with 100% customer satisfaction
- Leveraged React and Node.js to develop and deploy an efficient, responsive web application for a SaaS product
- Optimized a machine learning based cloud app and migrated to a better server, improving response time by 3X
- Screened and hired junior developers, designed technical code tests, conducted interviews, and mentored them
- Implemented code quality standards for projects and helped with software architecture decisions
- Configured web server and developed pipeline to deploy applications to AWS EC2, AWS EB
- Tech Stack: Three.js, React, JavaScript, TypeScript, Python, Electron.js

EDUCATION

MIAMI UNIVERSITY | MSc Computer Science | GPA: **4.0 / 4.0**   August 2022 – Present
Important Coursework: Game Engine Design, Computer Vision, Comparative Programming Languages

IOE PULCHOWK CAMPUS, NEPAL | B.Eng. Electronics & Communication   November 2014 – August 2018
Important Coursework: Discrete Mathematics, Big Data, OOP, AI, Image Processing, Probability and Statistics

LEADERSHIP

Full Stack Developer Volunteer | QUEEN'S WEB   July 2020 – December 2020

- Led the team of four developers to develop a bakery shop website with inventory, ordering features as a volunteer

Event Coordinator | LOCUS 2018   September 2017 – August 2018

- Served as a core committee member to plan and organize multiple events of a national technology exhibition while coordinating with 14 other core committee members and numerous volunteers.

PROJECTS

ROOM TOOL | Tech Stack: Typescript, React, Three.js, Ant Design

- Developed an immersive 3D solution to create a virtual room with dynamic lighting, camera controls and customizable texture using React and Three.js
- Created a modular front-end system to increase reusability and facilitate easy integration for future products, resulting in a streamlined development process and faster time to market

EXPLORUG | Tech Stack: React, Leaflet.js, Cube.js, Three.js, JavaScript

- Implemented an advanced analytic solution to visualize user behavior and interactions, providing valuable insights into user preferences and behaviors for the SaaS product exploRUG
- Developed a dynamic tiling system using Leaflet.js reducing load time by 50%, improving the user experience
- Designed custom features and UI layouts that improved user engagement and satisfaction

SCHOOL MANAGEMENT SYSTEM | Tech Stack: React, Redux, Recharts.js

- Developed dashboard and front-end system for a school management app using React and Redux
- Implemented a data visualization system using Recharts to provide meaningful student and teacher data insights