Jonesh Shrestha

Grounded and solution-oriented CS graduate with a wide variety of experience. Adept at motivating self and others. Passionate about web development and data science.

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Kathmandu, Nepal

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EDUCATION

Bachelor's in Computer Science
Kathmandu University

03/2016 - 05/2020   *(in-major GPA 3.67)*

Courses

- Data Structure and Algorithm
- Human Computer Interaction
- Algorithm & Complexity
- Database Management System
- System Analysis and Design
- Software Engineering

TEAM PROJECTS

GitHub Profile: github.com/joneshshrestha
(For additional information and projects)

Advanced Evolution Simulator (11/2018 - 02/2019)

- Developed an optimization environment to synthesize a realistic human walking.
- Researched on optimal gait pattern for a 2d bipedal model locomotion.
- Utilized: HTML/CSS, JavaScript, Box2D, p5.js, GIT

Evolution Simulator (05/2018 - 08/2018)

- Built a realistic physics environment for evolution simulation.
- Developed a creature for the simulation.
- Implemented Neural Networks and Genetic Algorithms.
- Utilized: HTML/CSS, JavaScript, Matter.js, TensorFlow.js, P5.js

KU BOT (11/2017 - 01/2018)

- Built a messenger bot to ease the communication between teachers and students of KU.
- Created a platform for teachers to be able to add courses and students able to subscribe the course using predefined commands.
- Developed platform for administrative officers to be able to create profiles and post notices like fee deadlines or proposal/report submission deadline.
- Utilized: HTML/CSS, JavaScript, Node.js, Express.js, MySQL

KURA (Kathmandu University Requests & Answers) (05/2017 - 08/2017)

- Built a forum for KU students to discuss formal questions regarding their courses.
- Register KU students with valid email and upvote/downvote feature.
- Utilized: HTML/CSS, BootStrap, Node.js, Express.js, MongoDB, Cloud Storage, Heroku

Sudoku Solver (10/2016 - 02/2017)

- Built sudoku puzzles with different levels of difficulties.
- Created user-friendly interface using C++ and Qt framework.
- Utilized: C++, Qt framework, Adobe Photoshop

WORK EXPERIENCE

Freelance
Fiverr

11/2017 - 01/2020

Achievements/Tasks

- Built multiple responsive static websites. https://omgsoundboard.github.io/

Business Intelligence Intern
LIS Nepal Pvt. Ltd.

01/2020 - 03/2020

Achievements/Tasks

- Retail Analytics (Worked with SQL, Oracle Data Integrator, OBIEE, ODI data validation, ETL processes, rpd extraction, oracle partitioning, parallel query processing, PL/SQL and Microsoft Power BI)
- Attended L&D Sessions (Datacenter Infrastructure, Retail POS 101, SQL Basics)
- MicroStrategy Reporting (Worked with MicroStrategy Desktop drill maps, creating complex, nested and compound metrics, consolidations, MicroStrategy web document design and report development, Robling Data Model, Robling ETL Architecture, Snowflake Data Management)

Startup Intern
Open My Network

08/2020 - 09/2020

Achievements/Tasks

- Built mobile app prototypes using framer
- Built AI chatbot with Rasa Natural Language Understanding(NLU) using Python
- Game Development e-learning project
- Social Media Marketing/Online Digital Marketing

Machine Learning Researcher
Kathmandu University DoCSE

12/2020 - Present

Achievements/Tasks

- Working on Natural Language Processing - Image Captioning in Nepali which has a great potential impact for instance on robotic vision and helping visually impaired people of Nepal.

SKILLS

Communication   Problem Solving   Team Work

Flexibility   Confidence   Self-management

LICENSES & CERTIFICATIONS

- **The Complete 2019 Web Development Bootcamp** (01/2018)
- **Udemy iOS 13 & Swift 5 - The Complete iOS App Development Bootcamp** (12/2019)
- **Udemy User Experience Design Essentials - Adobe XD UI UX Design** (10/2020)

TECHNICAL SKILLS

Tools
Proficient: NumPy, Pandas, Node.js, P5.js , Terminal, Visual Studio Code, Xcode, Git, GitHub, Heroku, Adobe XD
Familiar: MATLAB, TORA, Prolog, React.js

Languages
Proficient: Python, MySQL, JavaScript, HTML/CSS
Familiar: C, C++, Swift

Frameworks
Proficient: Bootstrap, Flask, Express, jQuery
Familiar: TensorFlow, Qt, Box2D, Matter.js

SOLO PROJECT

Kantipur Web Scraper
- Developed web crawler using python that extracts latest news from Kantipur without ads.

iOS Applications
- Developed multiple iOS apps using Swift: Magic 8 Ball, Dicee, Xylophone, EggTimer, etc.

Quick Sort Visualization
- Built sorting visualization with P5.js library.

Twitter Bot
- Developed auto like and retweet twitter bot.

Perlin Noise
- Created a two-dimensional flow field with p5.js library.

Drum Kit
- Built a game that allows users to play drum kit sounds.

Simon Game
- Simulated real Simon Game into a web based Simon Game.

Mock Up Facebook Page
- Created an educational model phishing site to learn how scammers scam users and use their credentials.