

# 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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## EDUCATION

### Bachelor's in Computer Science

Kathmandu University

03/2016 - 05/2020

(in-major GPA 3.67)

#### Courses

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

## TEAM PROJECTS

GitHub Profile: [github.com/joneshshrestha](https://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.
- Implemented Convolution Neural Network (CNN) in the first phase to generate caption and calculated the BLEU and METEOR evaluation metrics for the first model.
- Working on combining Transformer architecture using attention mechanism and CNN to further increase the accuracy of our model and calculating the accuracy using our evaluation metrics.

## Frontend Developer

Thoplo Technology Pvt. Ltd

03/2020 - Present

### Achievements/Tasks

- Designed and Developed Transliteration to convert from English to Nepali, also designed special symbols specifically for the Nepali language.
- Developed Preeti to Unicode and Unicode to Preeti Converter using Vanilla JavaScript.
- Developed and implemented Nepali to English and English to Nepali date converter.

## Software Engineering Intern

Leapfrog Technology Inc.

04/2020 - Present

### Achievements/Tasks

- Designed LoFi and used HTML and CSS2 to build TuTangle website and used that design to make it responsive.
- Developed Travler website from scratch using mobile first approach from PSD file with HTML, CSS5, and JS.
- Developed Image Slider, Ball Collision, Car Lane game, Flappy bird using vanilla JS.

## LICENSES & CERTIFICATIONS

- The Complete 2019 Web Development Bootcamp (01/2018)
- Udemy User Experience Design Essentials - Adobe XD UI UX Design (10/2020)

## TECHNICAL SKILLS

### Tools

*Proficient:* Visual Studio Code, Xcode, Git, GitHub, Heroku, Adobe XD, Node.js, P5.js, NumPy, Pandas, Terminal

*Familiar:* React.js, MATLAB, TORA, Prolog

### Languages

*Proficient:* JavaScript, HTML/CSS, MySQL, Python

*Familiar:* C, C++, Swift

### Frameworks

*Proficient:* jQuery, Bootstrap, Flask, Express

*Familiar:* TensorFlow, Qt, Box2D, Matter.js

## SOLO PROJECT

### Kantipur Web Scraper

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

### 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.

### iOS Applications

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

### UI/UX Designs

- Developed HiFi for InstructorHQ and Maynooth Furniture.
- Developed Government Municipality HiFi.

## SKILLS

Communication

Problem Solving

Team Work

Flexibility

Confidence

Self-management