ASHISH JAISWAL

Software Engineer

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EXPERIENCE

Graduate Teaching Assistant
CSE, University of Texas at Arlington

📅 August 2019 – Present   ⚲ Arlington, TX, USA

Scientific Applications Programmer
SocialEyes NP

📅 April 2019 – July 2019   ⚲ Kathmandu, Nepal

- Researched & implemented computer vision techniques with transfer learning to detect diseases from retinal images targeting macular-degeneration
- Built a risk analysis matrix dashboard to visualize patient's parameters, health information, and history

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Software Engineer
Insight Workshop (Python Team)

📅 Dec 2017 – May 2019   ⚲ Kathmandu, Nepal

- Wrote effective, scalable code in Django & Angular and developed back-end components to improve responsiveness and overall performance
- Implemented security and cloud solutions with AWS Services (EC2, RDS, S3, Lambda, CloudWatch)
- Incorporated classical ML techniques in web applications
- Worked on IoT projects related to health monitoring system
- Developed custom python packages and libraries

ACHIEVEMENTS

- **Fusemachines Datathon Winner** 2018
- **3-Day Drone Workshop** 2016 - Kusma, Parbat
- Placed as **1st runner-up in KrishakCopter** – International Drone Competition 2016
- **Semi-Finalists** in National Sumo-Robot Competition - "Manual Akhada" & **Runner-up** in Line-Following Robotics Competition

EDUCATION / COURSES

Ph.D. in Computer Science
University of Texas at Arlington

📅 Aug 2019 – Present

Micromasters in Artificial Intelligence
Columbia University - EdX

📅 Jan 2018 – May 2019

Bachelors in Electronics & Comm. Engineering
Kathmandu Engineering College, Tribhuvan University

📅 Nov 2014 – Sep 2018

HONORS & AWARDS

- Selected as an **AI Scholar** in 2018 - FuseMachines Nepal
- Awarded as one of the **25 AI-fellows** from Nepal in 2017 - FuseMachines Nepal
- **Regular (Full) Scholarship** awarded by Institute of Engineering - B.E.

PROJECTS

KrishiSathi

- A web portal for farmers integrated with Machine Learning and IoT to analyze crops and their growth daily

Semi-Autonomous Solar Panel Cleaning Robot

- A semi-autonomous robot that turns on street lights and then cleans solar panels autonomously with assistance from a helper robot
- Yielded us the **Best Engineering Award** at Robocon Nepal 2018

Hexacopter

- A self-designed hexacopter (drone) with a customized KK2 flight controller
- Yielded us the second place in an international drone competition "KrishakCopter - Yantra"

Industrial Robotic Arm

- Arduino-driven and supported by servo motors, the arm is a prototype for carrying out industrial chores
- Powered with record-and-play feature for automation

Currency Predictor

- A Django web application that predicts the price of a selected cryptocurrency in the near future, using timeseries

BP & Heart Rate Monitoring System

- A health analyst web application (Angular SPA & Django REST) powered by an IoT Blood Pressure device and machine learning

WCMS for a Juice Sales Enterprise

- Developed a data-analysis web application to manage, monitor and visualize sales in a commercial enterprise
- Applied an extension of Python's **gestalt pattern matching** approach to resolve data duplicity issues

GRE Vocab Wallpaper

- A python script that changes desktop wallpaper with a random GRE vocabulary
- Helped me score a 321/4.5 in the GRE