Suba Sah

+1 419-329-8280 | suba.sah@utoledo.edu | linkedin.com/suba | github.com/subasah

EDUCATION

University of Toledo   Toledo, OH
Master in Computer Science and Engineering, GPA: 4.0   *Jan 2020 – Fall 2021(Expected)*

Institute of Engineering, Central Campus, Pulchowk   Kathmandu, Nepal
Bachelor in Computer Engineering, GPA: 3.5   *Oct 2011 – Dec 2015*

EXPERIENCE

Graduate Research Assistant   Apr 2020 – Present
University of Toledo   *Toledo, OH*
- Research in dispatching strategy and optimization used for Integrated Energy System (IES) using Deep Reinforcement Learning
- Deployed python simulation into RAVEN, a framework developed by Idaho National Laboratory
- Wrote python modules for parameter optimization in transactive energy system to train a neural network
- **Technologies:** OpenAIGym, Ray, RLlib, Python, PySpice, Pytest

Monotype Imaging Holdings Inc.(UBA Solutions)   Jan 2019 – Dec 2019
Senior Software Developer   *Kathmandu, Nepal (Boston, HQ)*
- Architected AWS flow for 10+ microservices and websites within company's product
- Developed and deployed 4 dockerized microservices and 4 microsites using AWS components
- Improved browsing speed of the website by avg. 5 sec
- Wrote code adhering to OOD, SOLID principles and various design patterns
- Performed A/B testing using Google Optimize
- Integrated third party scripts using Google Tag Manager (GTM)
- **Technologies:** PHP, JavaScript, TypeScript, React, Redux, Docker, Ngnix, MySql, PostgreSql, Redis, AWS, Jira, Jenkins, CI/CD, BDD(Cucumber, Gherkins), Elasticsearch, Webpack, Selenium, Confluence for documentation
- **Unit Testing:** Codeception, PHPUnit, React Testing Library and Jest

Global Digital, Nepal   Nov 2016 – Dec 2018
Software Developer   *Kathmandu, Nepal (Oslo, HQ)*
- Rebuilt legacy monolithic software to scalable microservice based architecture
- Developed REST API for magazine subscription management system
- Implemented different payment gateways (Stripe, PayPal, and Mastercard)
- Enabled 100K+ customers to publish/pay and advertise their service
- Worked with cross-functional agile team
- **Technologies:** PHP, JavaScript, TypeScript, React, Redux, Jira
- **Unit Testing:** Codeception, PHPUnit, React Testing Library and Jest

PUBLICATIONS/PROJECTS

The university of Toledo | *Reinforcement Learning, Deep Reinforcement learning*   Apr 2020 – Aug 2020
- A Transactive Energy Framework for Hydrogen Production with Economically Viable Nuclear Power
- Submitted to IEEE PES T and D conference at August 15
- This work is in collaboration of Idaho National Lab (INL), Idaho

Live Movie Search | *JavaScript, React, Redux, Thunk, Git, Git Flow*   Jan 2019 – Feb 2019
- Integration of IMDb API for listing movie details
- Thunk-redux middleware for asynchronous API call

AWARDS

Academic Excellence Award, Institute of Engineering
Tuition Fee Waiver Award, University of Toledo