

Suba Sah

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EDUCATION

University of Toledo

Master in Computer Science and Engineering, GPA: 4.0

Toledo, OH

Jan 2020 – Fall 2021(Expected)

Institute of Engineering, Central Campus, Pulchowk

Bachelor in Computer Engineering, GPA: 3.5

Kathmandu, Nepal

Oct 2011 – Dec 2015

EXPERIENCE

Graduate Research Assistant

University of Toledo

Apr 2020 – Present

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)

Senior Software Developer

Jan 2019 – Dec 2019

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, Nginx, 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

Software Developer

Nov 2016 – Dec 2018

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

Idaho National Laboratory (INL) | *Implementing Real-Time Sub-gradient Optimization*

Jan 2020 – Jul 2020

- Optimization based control for renewable energy park
- Simulation verified for synchronization and bridging functions
- Submitted to IEEE PES general meeting 2021

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