

Suba Sah

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EDUCATION

The University of Toledo

Master in Computer Science and Engineering, GPA: 4.0

Toledo, OH

Jan 2020 – Nov 2021

Institute of Engineering, Central Campus, Pulchowk

Bachelor in Computer Engineering, GPA: 3.5

Kathmandu, Nepal

Oct 2011 – Dec 2015

TECHNICAL SKILLS

Programming Languages: Python, PHP, JavaScript, SQL, GraphQL, Java, C#, C++

Databases: MySQL, MS-SQL, PostgreSQL, Redis, MongoDB

Frameworks and Libraries: Django, Laravel, React, Redux, TypeScript, OpenAIGym, RLLib

Tools: Node.js, Docker, Kubernetes, AWS, CI/CD (Jenkins, CircleCI), Git, Webpack, Linux, Redux, Bash

E2E Testing: Pytest, PHPunit, React Testing library, Selenium, Gherkins, Cucumber

EXPERIENCE

University of Toledo

Graduate Research Assistant

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](#), an open-source framework developed by Idaho National Laboratory
- Collaborated in developing open-source Python based [APIs](#) and [React based frontend](#) for [Volltron](#)

Monotype Imaging Holdings Inc.(UBA Solutions)

Senior Software Developer

Jan 2019 – Dec 2019

Kathmandu, Nepal (Boston, HQ)

- Architected AWS flow for 5+ microservices and websites within company's product
- Developed 4 dockerized microservices and 4 microsites with Python, Express, React, and deployed to AWS
- Docker containers improved website performance and reliability by more than 50% in average
- Wrote code adhering to OOD, SOLID principles and various design patterns

Global Digital, Nepal

Software Developer

Nov 2016 – Dec 2018

Kathmandu, Nepal (Oslo, HQ)

- Rebuilt legacy monolithic software to scalable microservice architecture that improved maintainability by 80%
- Developed REST API for magazine subscription management system using Django, Express, and PHP
- Implemented different payment gateways (Stripe, PayPal, and Mastercard) using React
- Enabled 100K+ customers to publish/pay and advertise their service

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

[View Project](#)

- 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, The University of Toledo