

Pratiksha Shrestha

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SKILLS

Programming Languages & Runtime Env: Python, JavaScript, Node.js, PHP, Shell Script, C++

Frameworks & Packages: Express.js, React.js, Numpy, jQuery

Databases: MySQL, MongoDB

Software/Technology: Web Development, Microservices, Agile Methodology, Git, Linux, Amazon Web Services (AWS Lambda, Batch, EBS, RDS, S3, ECS, Elasticsearch),

WORK EXPERIENCE

Graduate Assistant (Full Stack Developer)

August 2022 – Present

Myaamia Center, Miami University

- Develop web applications and secure admin panels to aid Myaamia tribal language revitalization efforts
- Database architecture design and API integration for Neepwaayoni Acquisition and Assessment Team (NAAT) project

Software Developer

March 2019 – June 2022

Proshore Nepal

- Developed secure, user-centric B2B web applications implementing AWS serverless and microservices architecture
- Implemented efficient and consistent e-commerce data synchronization between 4 third-party vendor systems
- Generated aggregated sales reports, client-vender sales analysis and user activity reports
- Solved database performance issues, and optimized codebase increasing site performance by ~400% (5x faster response time)
- Built automated deployment pipeline for streamlined release and rollback process decreasing deployment time
- Led technical planning and steering meetings in a team of 7-10 members

Associate Software Engineer

August 2018 – February 2019

GrowByData Services Pvt. Ltd.

- Researched and implemented search engine optimization strategies, analytics, and updates of various e-commerce stores
- Incorporated search engine spidering, crawling, and indexing and set up tests and campaigns for A/B testing and report generation

EDUCATION

Master Of Science in Computer Science

August 2022 – May 2024 (Expected)

Miami University

CGPA: 4.00/4.00 (Ongoing)

Relevant Courses: Advanced Databases, Cryptography, Machine Learning

B.E. Computer Engineering

August 2014 – October 2018

Kathmandu University

CGPA: 3.63 /4.00

Relevant Courses: Software Engineering, Statistics and Probability, Data Structures and Algorithms, Operations Research

LEADERSHIP

Women Leaders in Technology (WLIT)

August 2018 – June 2022

Technical Committee Member / Instructor

- Facilitated web development sessions in Node.js, JavaScript and jQuery at WLIT bootcamp 2020/21, and 2021/22
- Mentored undergraduate female students to support their professional goals and help reach their leadership potential

Kathmandu University IT MEET 2018

October 2017 – January 2018

Organizer

- **Event Manager** of Idea Hunt, an idea pitching contest held at IT MEET 2018
- Contributions on documentation, summarization, report generation, and press release of IT MEET 2018

PROJECTS

Image Classifier | Python, PyTorch

- Built Convolutional Neural Network model implementing Residual Network architecture for image classification
- Achieved accuracy of ~91% with the trained model

suggestAbook | Python, JavaScript, Node.js, React, Flask, Numpy, Pandas

- Book recommendation system using Collaborative Filtering approach
- Used k-Nearest neighbors approach on user-item sparse matrix to recommend books based on user's recent read

Nepali Conversion Tool | C++, Python, GTK

- Linux application written in C++ and Python for conversion between ASCII-based Nepali Preeti and Unicode standard
- Added support for character encoding conversion from large, rich .docx files preserving document formatting