Yangchen Lama

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MERN Full Stack Developer

As a dedicated Full stack developer with a Master's in Computer Science, specializing in machine learning and software engineering, I bring a robust technical foundation through an intensive full stack development bootcamp. My proficiency in HTML, CSS, JavaScript, Python, along with deep expertise in React, Node.js, MySQL, MongoDB, and familiarity with AWS and Docker, allows me to build salable web and mobile applications from the ground up.

With strong communication and problem-solving abilities, I excel in high-pressure environments, fostering collaborative success and driving projects to completion. My goal is to leverage my comprehensive technical skills and passion for software development to contribute to your team, delivering high-quality, scalable, and user-centric software solutions that drive business success and innovation.

Work Experience

Full Stack Developer at BizVision - UTS Startups, Sydney   *June 2023 – Present*

- Utilized Material-UI to craft responsive user interfaces and implemented interactive elements using React.
- Built and managed robust server, application, and database infrastructures using Node.js, and managed databases such as MySQL and MongoDB.
- Developed RESTful services and APIs to facilitate seamless communication between front-end and back-end systems. Integrated third-party services to extend functionality.
- Applied SEO best practices to enhance online visibility and search engine rankings.
- Engaged in rigorous peer reviews and provided feedback to ensure high code quality. Collaborated in an Agile environment with developers, designers, and stakeholders to maintain high standards and continuous improvement.
- Stayed abreast of the latest industry trends and technologies to enhance personal skills and application effectiveness.

IT Officer at Manang Municipality, Nepal   *November 2019 – April 2022*

- Spearheaded the transition from traditional methodologies to an integrated e-governance framework, enhancing the municipality's digital infrastructure.
- Delivered educational and training programs tailored to enhance staff proficiency in new digital tools and e-governance platforms, ensuring high-quality professional staff performance.
- Provided comprehensive IT support, troubleshooting technical issues, and ensuring reliable software performance for all government employees.
- Assisted with the installation and configuration of software, guiding users through new updates and digital tools, facilitating a smooth transition to digital platforms.
- Managed the reception and distribution of email communications from upper government bodies, ensuring that local government departments received and appropriately responded to all correspondences.
- **Achievement:** Successfully digitized records, leading to a significant improvement in the efficiency, accessibility, and accuracy of municipal services.

Education and Training

- **Master of Computer Science**, University of Wollongong, Australia   *August 2022 - Present*
  Major: Software Engineering, Machine Learning, and Big Data Analysis
  High distinction in Capstone project (Fauna Finder Application)

- **Bachelor of Computer Science, IT**, University of Wolverhampton   *March 2016 - November 2019*
  Awards and Honours: First class

- **Full-Stack Development Coding Bootcamp**, Dented Code Academy, Sydney
  Gained expertise in the end-to-end development of web applications using the MERN stack (MongoDB, Express, React, Node.js) and related technologies. The intensive training emphasized practical, real-world problems, equipping me with the skills to handle all aspects of application development from database management to user interface design and server-side logic.

Technical Skills

- **Programming Languages:** HTML, CSS, JavaScript, Python, R
- **Web Development:** Proficient in React, Node.js, Express.js, restful API; experienced in building scalable web applications.Skilled in MongoDB and MySQL; knowledgeable in both relational and non-relational database systems.
- **Machine Learning & Data Analysis:** Proficient in machine learning algorithms, data mining, and big data analysis techniques.
- **Other Tools:** Versed in using VS Code, Figma, SASS, Adobe Photoshop, Discord for team communication, and Trello for project management.Proficient in Git and GitHub for source code management.
- **Cloud Services (AWS):** Proficient with AWS services, including Elastic Beanstalk for application deployment and S3 for scalable storage solutions.

Soft Skills

- **Teamwork:** Proven track record of collaborating effectively with diverse teams to deliver software projects on time and to specifications.
- **Critical Thinking:** Skilled in analyzing problems, designing solutions, and implementing strategies that enhance product functionality and user satisfaction.
- **Effective Communication:** Strong interpersonal skills, with the ability to communicate complex technical information clearly and persuasively to stakeholders at all levels.
- **Proactive Learning:** Continuously seeking new knowledge to keep skills relevant and cutting-edge, ensuring alignment with the latest industry trends.

Projects

Final Year Project: Fauna Finder

- **Overview:** Developed a mobile application to enhance wildlife tourism in Australia using image classification and a domain-trained Large Language Model (LLM).
- **Key Features:**
  - Utilized pretrained models (Xception, ResNet50, EfficientNetV2L) for image classification.
  - Implemented data augmentation techniques (random flip, rotation, zoom, contrast) to enhance model robustness.
  - Integrated Phi-3 mini model for conversational AI, providing real-time, contextually relevant information.
  - Microservice architecture with Docker for efficient deployment.
  - Backend built with Python and FastAPI, frontend with React Native Expo and ReactJS.
  - Achieved high accuracy with EfficientNetV2L, selected for superior performance.
- **Technologies Used:** TensorFlow, Keras, FastAPI, React Native, ReactJS, PostgreSQL, Docker, Git, GitHub, Google Colab, AWS S3.

E-commerce Admin CMS

- Built a robust dynamic CMS system for e-commerce platform using MERN stack with Redux.
- Implemented secure authentication and authorization with JWT.
- Integrated catalogue and inventory management feature.
- Added features for order, customer, and payment option management.
- **Live:** E-commerce Admin CMS
- **GitHub:** GitHub Repo

References

- Available upon request.