

Youkim Chhay

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EXPERIENCE

Artificial Intelligence Engineer Intern | RadicalX | US-Remote Dec 2023 - Present

- Developing innovative AI models with **Python**, **LLM**, and **OpenAI**, improving model accuracy and performance metrics.
- Performing data analysis and preprocessing using **Vertex AI** and **TensorFlow**, optimizing data quality and model training.
- Collaborating to implement AI algorithms and improve existing models.

Software Engineer | Freelance | Australia-Remote Aug 2020 - Apr 2022

- Designed and developed multiple static **web applications**, resulting in increased user engagement and customer satisfaction.
- Managed digital content and expanded a company's social media network by **25%**, enhancing brand visibility.
- Configured and managed **Appointment software** for a company, **doubling** bookings and improving customer service.
- Designed and developed an **Online Appointment Booking System** for a salon business, integrating **PayPal's** secure payment to streamline the booking process and enhance customer convenience.

Software Engineer | Macquarie University | Sydney, NSW, Australia Feb - Jun 2020

- Led the end-to-end development using **Django** and **SQLite**, achieving **50%** time and resource reduction in voting automation.
- Delivered a secure and reliable **MVC** application with **RESTful APIs**, producing a remarkable **99%** accuracy rate in vote counts.
- Deployed the application on **Amazon EC2**, ensuring a reliable and scalable voting infrastructure.

SKILLS

Languages: Java (Spring/Spring Boot, JUnit), JavaScript (Node.js, Express.js), Python, HTML, CSS, Processing, Scala

Design Patterns: MVC, PUB/SUB, COR, Proxy, Singleton, Factory, REST

Databases / Technologies: MongoDB, SQLite, MySQL, Git, AWS (IAM, CloudWatch, EC2, S3, Lambda), Heroku

PROJECTS

[Secure Online Auction System](#) | MIU | Web Application Architecture Oct 2023

- Implemented a secure and reliable **RESTful** backend application using **Spring Boot** and **Spring Web MVC**.
- Engineered a secure bidding protocol using **Spring Security** with **JWT** and **Spring Data JPA** for **MySQL** database.
- Collaborated with a front-end team to deliver a **full-stack** web application, optimizing load times and responsiveness.

[Event Organizer Application](#) | MIU | Modern Web Application Mar 2023

- Built a **JWT**-authenticated **RESTful** backend application in **Node.js** and **Express.js**, adopting **MVC** for separation of concern.
- Utilized **MongoDB** to store document-based data and **Amazon S3** to upload and store images.
- Collaborated with a front-end team to launch a **full-stack** web application, improving functionalities and user experience.
- Deployed both front and back ends on **Heroku**, increasing accessibility and garnering **98%** positive stakeholder feedback.

[Online Bookstore](#) Jan 2023

- Developed an online store using **HTML**, **Bootstrap**, **Node.js**, and **Express.js**, ensuring an intuitive shopping experience.
- Deployed the web application on **Heroku**, providing a reliable and scalable platform for users.

[Weather Dashboard](#) Apr - May 2021

- Fetched data from **OpenWeather API** to forecast real-time weather exceeding **92%** accuracy for over **200k** cities.
- Designed a dynamic web application in **Express.js**, utilizing **Bootstrap** to beautify the webpage.
- Deployed the application on **Heroku** to enhance cross-device accessibility, receiving positive user testimonials.
- Utilized **localStorage Web API** to save user search cities, resulting in a seamless and efficient search experience.

[Password Generator](#) Apr 2021

- Built a password generator with a feature to set the desired length and character types using **HTML**, **CSS**, and **JavaScript**.
- Enhanced security, ensuring **95%** of passwords with 12+ characters, protected against the dictionary and brute force attacks.
- Deployed the application on the **Github Page**, providing a secure and convenient platform for generating strong passwords.

EDUCATION

Master of Science, Computer Science | Maharishi International University | Fairfield, IA Oct 2022 - Present

3.88 GPA | Courses: Web Application Architecture, Enterprise Architecture, Algorithms, Advanced Software Development.

Bachelor of Information Technology | Macquarie University | Sydney, NSW, Australia Jul 2018 - Aug 2020

90 WAM | Merit List, Award for Academic Excellence, STEM Scholarship

Key Courses: Object Oriented Programming Practices, Software Engineering, Algorithm Theory and Design.