

YOUKIM CHHAY

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JUNIOR SOFTWARE ENGINEER

Trained software engineer with intensive academic and project-based experience and an extensive education in all aspects of the Software Development Life Cycle. Successful designing and developing many software projects using clean coding techniques and object-oriented concepts, as well as Java, JavaScript, Spring Boot, Node.js, Express.js, Angular, MySQL, MongoDB, Git, and VS Code.

Object Oriented Programming • Data Structures
Design Principles • Design Patterns • API Integration

Languages: Java, Python

Web: HTML5, CSS3, JavaScript, jQuery, AJAX, Axios, Bootstrap, JUnit, EJB

Web Services: REST, JSON

Web/App Servers: Apache/Tomcat

Frameworks: Node.js, Express.js, Angular, Spring (MVC, Boot, Security, Data JPA, AOP, Dependency Injection, Cloud), Hibernate, React, Django

Databases: MongoDB, SQLite, MySQL

Design Patterns: MVC, Singleton, Observer, Factory, Strategy, State, Command, Template, Proxy, Chain of Responsibility, Composite, Decorator, Adapter, Façade

SDLC: Agile, Waterfall

Tools: Git, VS Code, Eclipse, Spring Tool Suite, IntelliJ, MS Teams, Heroku, Trello

Platforms: Windows

CAREER NOTE: Completed on-campus studies and currently taking distance education courses to complete a **Master's Degree in Computer Science** (Available for full-time, W-2 employment).

EDUCATION

Master of Science in Computer Science

(In progress via distance education; expected completion June 2025)

Maharishi International University – Fairfield, Iowa

Key Courses: *Modern Programming Practices; Web Application Programming; Modern Web Applications; Algorithms; Enterprise Architecture; Web Application Architecture; Advanced Software development*

Bachelor of Information Technology in Software Technology (2020)

Merit List; Award for Academic Excellence; STEM Scholarship; ASEAN Scholarship
Macquarie University – Sydney, Australia

Key Courses: *Fundamentals of Computer Science; Algorithms & Data Structures; Object-Oriented Programming Practices; Software Engineering; Algorithm Theory & Design*

Diploma of Information Technology (2018)

Macquarie University International College – Sydney, Australia

PERSONAL PROJECTS

YKC Bookstore (2023): Mini online shopping web application where customers can browse and buy books, and administrators can add new books. **Technologies Used:** *HTML, CSS, JavaScript, Express, NodeJS, Bootstrap, VS Code, Git, Heroku*

Personal Portfolio (2021): Static webpage to showcase education, projects, volunteer experience, and contact details. **Technologies Used:** *HTML, CSS, Git*

Weather Dashboard (2021): Web application presenting current and future weather forecasts for any city, with weather conditions, temperature, humidity, wind speed, and UV index. **Technologies Used:** *HTML, JavaScript, Express, Bootstrap, OpenWeather API, VS Code, Git, Heroku*

Password Generator (2021): Web application which generates a password based on criteria such as length and character types. **Technologies Used:** *HTML, CSS, JavaScript, VS Code, Git*

JavaScript Quiz (2021): Web application where users can take a timed quiz on JavaScript Fundamentals, including high scores. **Technologies Used:** *HTML, CSS, JavaScript, MVC, Handles API, VS Code, Git*

Daily Planner (2021): Webpage used to plan a daily work schedule. **Technologies Used:** *HTML, CSS, JavaScript, Local Storage, VS Code, Git*

ACADEMIC PROJECTS

Maharishi International University, Fairfield, Iowa (2023):

- **Online Auction System:** Developed a RESTful backend application where sellers can auction a product, and customers can search for products and bid on a product. Includes user authentication and uses Spring Boot, Spring Web, Spring Data JPA, MySQL, IntelliJ, Git, and Trello.
- **Online Retail System:** Implemented a RESTful backend application where users can browse and search for items, add them to a shopping cart and place an order. Includes user authentication, and uses Spring, Spring MVC, Spring Boot, Spring Data JPA, Domain Driven Design, and Git.
- **Event Organizer App (Eventizer):** Implemented a MEAN stack web application where users can create and post events, register for events, and search for nearby events. Includes user authentication, and uses Node.js, Express.js, Angular, MongoDB, Heroku, Amazon S3, VS Code, Git, and Trello.
- **Library Management System:** Designed and developed a Java-based system where administrators can add members and books, and librarians can check out books, as well as view all books and checkout records.

Macquarie University, Sydney, Australia (2020):

- **MQ 3MT Voting App:** Built a voting website for a 3-minute thesis competition event. The web application automates the voting process, including candidate details, voter registration, voting, vote counting, result visualization, archiving, and exporting. **Technologies Used:** *Python, Django, SQLite, VS Code, Git, AWS*