

Youkim Chhay

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<https://youkimchhay.github.io/portfolio/projects/>

Junior Software Engineer

CAREER OBJECTIVE

Highly motivated and detail-oriented Junior Software Engineer with a strong coding and software development foundation. Seeking a challenging position to contribute technical skills and collaborate with a team to develop innovative software solutions. Committed to continuous learning and growth. Available for **full-time W2 employment**.

SUMMARY OF QUALIFICATIONS

- Proficient in **Java, JavaScript, jQuery, HTML5, CSS3, Node.js, Express.js, MongoDB, SQLite, REST API, JSON, Spring (Boot, MVC, Security, Data JPA, AOP, DI)**.
- Familiarity with **React, Redux.js, Axios, Angular, EJB, JUnit, Hibernate, Python, Django, MySQL**.
- Knowledge of **algorithms, data structures, OOP, SOLID design principles**, and **software design patterns** (Strategy, Observer, State, Command, Template, Chain of Responsibility, Adapter, Facade, Proxy, Singleton, Factory).
- Proficient in version control using **Git** and experience in **API integration, debugging, and troubleshooting** code.
- Excellent verbal and written **communication** skills and ability to work **independently** and in a **team**.
- Showed **analytical, problem-solving, and leadership** skills through group projects and extracurricular activities.

ACADEMIC PROJECTS

Electronic Voting

- **Led project end-to-end**: gathering requirements, designing, implementing, testing, deploying, and delivering.
- Built a **Full-Stack** web application for an electronic voting application that **automates** the voting process, provides **accurate real-time** results, and enables **data visualization and analysis**.
- Technologies employed: **Python, Django, SQLite, Git, and AWS EC2**

Secure Online Auction System

- Designed and developed a **RESTful** backend application with a **JWT** authentication mechanism and adhered to **architectural analysis** and **domain-driven design**.
- Technologies employed: **Spring Boot, Spring MVC, Spring Security, Spring Data JPA, MySQL, Trello, and Git**

Online Retail System

- Designed and implemented a **RESTful** backend application fortified with **user authentication** and guided by **architectural analysis, domain-driven design, and integration testing**.
- Technologies employed: **Spring Boot, Spring MVC, Spring Data JPA, and Git**.

Event Organizer Application

- Provided event organizers with a user-friendly event planning, organization, and management platform.
- Collaborated and developed a **Full-Stack** web application in **MEAN stack** and deployed on **Heroku**.

PERSONAL PROJECTS

Weather Dashboard

- Deployed a dynamic web application that delivers **real-time** weather forecasts for any city worldwide.
- Technologies employed: **HTML, JavaScript, Express, Bootstrap, OpenWeather API, Git, and Heroku**.

Password Generator

- Designed and built a web application to generate **strong** and **unique** passwords based on selected **criteria**, including length and character types.
- Technologies employed: **HTML, CSS, JavaScript, and Git**.

JavaScript Quiz

- Designed and implemented a quiz application where users can take a **timed quiz** on JavaScript Fundamentals.
- Technologies employed: **HTML, CSS, JavaScript, MVC, Handlers APIs, and Git**.

Personal Portfolio

- Deployed a static webpage to showcase my **personal projects** and to detail my **achievements**.
- Technologies employed: **HTML, CSS, Git, and GitHub Page**

EDUCATIONS

Master of Science, Computer Science

Maharishi International University

October 2022 - Expected completion in June 2025

Fairfield, IA, US

Key Courses: **Modern Web Applications; Web Application Architecture; Enterprise Architecture;**

Modern Programming Practices; Algorithms; Advanced Software Development

GPA: 3.88 / 4.0

Bachelor of Information Technology, Software Technology

Macquarie University

July 2018 - July 2020

Sydney, NSW, Australia

Merit List; Award for Academic Excellence; STEM Scholarship; ASEAN Scholarship

Key Courses: **Object Oriented Programming Practices; Software Engineering; Algorithm Theory & Design**

WAM: 90 / 100

Diploma of Information Technology

Macquarie University International College

October 2017 - July 2018

Sydney, NSW, Australia

GPA: 6.75 / 7.0

EXTRACURRICULAR ACTIVITIES

International Collegiate Programming Contest

20 October 2018 & 21 September 2019

Competed in a coding competition called ACM South Pacific Divisional Programming Contest at the Sydney site.

Computing Undergraduate Research Project

December 2018 & July 2018

Made a Request for Comment (RFC) to add "generics" functionality in the Whyley programming language.

Gathered, preprocessed, and analyzed data for the initial phase of the research project, Cognition of Coding.