

Kha-Kein "Luke" Cheng

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EDUCATION

Green River College

Bachelor of Applied Science in Computer Science

Auburn, WA

Sept. 2021 – June 2025

EXPERIENCE

Coding Tutor

Apr 2023 – Present

Code The Dream

Remote

- Instruct and mentor a dedicated group of students in full-stack web development, covering technologies like HTML, CSS, JavaScript, React, and Node.js
- Conduct code reviews and one-on-one mentoring sessions to identify and address individual learning gaps, fostering critical thinking and problem-solving skills

Information Technology Support Specialist

Sept 2023 – Present

Green River College

Auburn, WA

- Provide multifaceted IT support across Microsoft tools, emails, CTCLink, Canvas, and hardware, while implementing Multi-Factor Authentication for over 8,000 users
- Created a chatbot to offer 24/7 availability, ensuring that students can get assistance at any time, managing up to 100 inquiries per day autonomously, allowing IT staff to focus on more complex issues 3-4 times the previous volume.

Open-Source Software Engineering Intern

June 2024 – August 2024

CodeDay Labs

Remote

- Under the guidance of Dibba Roy from Nemours, worked on Homework Submission and Autograding Server for Rensselaer Polytechnic Institute.
- Optimized Docker images to streamline the deployment process, converted legacy Twig templates to JavaScript for enhanced front-end functionality, and implemented responsive styling using modern web technologies to improve user interface consistency and performance.

PROJECTS

IT Chatbot | *Python, Flask, NLTK, Pytorch, Jinja, GoogleSheet API, Render*

June 2024 – August 2024

- Developed an IT chatbot for college to assist students with technical queries using natural language processing (NLP)
- Utilized NLTK and PyTorch libraries to build and train an NLP model for understanding and responding to student inquiries
- Integrated Google Sheets API as a database to manage and retrieve frequently asked questions and answers
- Implemented web scraping techniques to provide real-time updates from the main college website
- Built the chatbot interface using Flask framework and Python for seamless interaction with users
- Deployed the chatbot on Render, ensuring reliable and scalable web service for student access

Todo List Webapp | *Python, FastAPI, HTML, CSS, JavaScript, SQLite*

April 2024 – June 2024

- Develop a fully functional todo web application using FastAPI, including a RESTful API with CRUD operations, and used Jinja2 for server-side templating to dynamically generate HTML content
- Design and managed the database with SQLite and SQLAlchemy ORM, performed database migrations with Alembic, and utilized Pydantic for data validation and error handling
- Implement user authentication and authorization using OAuth2PasswordRequestForm and JWT, ensuring secure access to API endpoints
- Conduct unit and integration testing using Pytest, and built a frontend interface using HTML, CSS, and JavaScript for DOM manipulation

Plant Care Webapp | *HTML, CSS, Bootstrap, MySQL, PHP, JavaScript, MVC, Git*

April 2024 – June 2024

- Implement robust user authentication and authorization mechanisms ensuring user data and plant care schedules are protected against unauthorized access
- Integrate a comprehensive plant API to fetch and display detailed plant's characteristics and care information
- Utilize a smart scheduling algorithm to send personalized watering reminders to users based on individual plant
- Ensured a seamless user experience across various devices with a responsive web design, adhering to the MVC(Model-View Controller) principles for organized and efficient code management