Luke Cheng

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EDUCATION

Green River College   Auburn, WA
Bachelor of Applied Science in Computer Science   *Sept. 2021 – June 2025*

EXPERIENCE

Coding Mentor   Apr 2023 – Present
Code The Dream   *Remote*
- Instruct and mentor a dedicated group of students in full-stack web development that includes HTML, CSS, JavaScript, React, Node.js, conduct code reviews and one-on-one mentoring sessions to ensure students' success.

Information Technology Support Specialist   Sept 2023 – Present
Green River College   *Auburn, WA*
- Provide multifaceted IT support and created a chatbot to offer 24/7 availability, 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*
- 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

SKILLS

Programming: Java, Python, JavaScript, PHP
Web and Database: HTML, CSS, MySQL, MongoDB, SQLite, RESTful APIs, MVC architecture
Machine Learning: PyTorch, Numpy, Pandas, Matplotlib, Seaborn, NLP
Frameworks: React, Express.js, Node.js, PHP Fat-free, JUnit, Bootstrap, Flask
Developer Tools: Git, Docker, Render