Ervin Jon Lanada

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Software Developer

Skills

Languages | Python, JavaScript, Java, C, CSS, HTML, SQL
Frameworks/Technologies | Django, Node.js, Express.js, React.js
Databases | MongoDB, PostgreSQL
Miscellaneous | Data Structures, Algorithms, System Design, Git/GitHub, Frontend, Backend

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Experience

Aaron Merril Engineering (AME) Consulting Ltd, Edmonton, AB
Software Developer Intern   04/2023 – Present

- Shadowed and learned from full stack developers, gaining exposure to web application development using technologies such as HTML, CSS, JavaScript, React.js, Node.js, Express.js, and PostgreSQL.
- Helped develop an online timesheet site with database storage, catering to companies in Europe and South America which houses more than 1000 users.
- Created a Python application for clients involved in pipeline construction projects in Mexico, Italy, and Canada.
- Developed comprehensive project proposals for various software projects, outlining project scope, objectives, deliverables, timelines, and resource requirements.
- Utilized CRC (Class Responsibility Collaboration) cards to analyze and document key responsibilities and collaborations between classes, facilitating effective communication and design discussions within the development team.
- Created UML (Unified Modeling Language) class diagrams to visually represent the structure and relationships between classes in software systems, aiding in the understanding and design of complex systems.

Projects

Bearhub (UofA Science Innovation Center – Ongoing) | Python, Django, HTML, CSS

- Bearhub is a Django fullstack application which is a go-to social networking platfrom exclusivly for UofA engineers and developers where students, faculty, and alumni can connect, collaborate, and showcase their skills.
- The project is made with the Django framework and has a sleek UI along with profile creation, messaging, user authentication and much more.

Budget Buddy | JavaScript, CSS, HTML, MongoDB, Express.js, React.js Node.js

- Budget Buddy is an easy to use personal expense tracker, where you can record income/expense and have the information displayed on a dashboard.
- The primary objective of this project was to get hands on experience with the MERN stack.

AutoReserve | Java, Maven, J-Unit

- Auto Reserve is a CLI project using Java where I make a back-end application for a car booking system with 6 features.
- Within the project I used N-Tier Architecture, Maven, OOP, and J-Unit.

Education

B.S. in Computer Science - University of Alberta
Graduating May 2025