LANCE KLUGE

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650-823-3030
Los Altos, CA
Boulder, CO

PROFILE

Self-motivated, industrious 4.0 student seeking an internship in the software development or data science/machine learning field. Mature and level-headed with exceptional time management skills. Superior ability to take direction and perform independently with great success, while asking intelligent and thoughtful questions as needed.

SKILLS/LANGUAGES

- **Extensive Experience with**: Java, C/C++, Python, Git, XGBoost, Pandas, Agile Methodology

- **Experience with**: NodeJS, JavaScript, HTML, CSS, PostgreSQL, RESTful APIs, GDB, Docker, Postman, NumPy

- Excellent critical thinking and debugging skills

- Ability to work and communicate in a fast-paced, team-based environment

PROJECTS

NFL Game Predictive ML Model:

- Built a predictive analytics model using XGBoost, Pandas, and scikit-learn in Python to predict NFL game winners based on pre-game team statistics. Wrote code to compute statistics given game data. Developed models iteratively, experimenting with features used, and performed hyperparameter tuning using GridSearch CV. Achieved 65.5% accuracy in prediction of untrained seasons' results.

Ski Resort Reviewing App:

- Utilized the agile methodology in a group of 5 peers to develop a ski resort reviewing web app. Personally worked on developing front-end features using Handlebars, HTML, Bootstrap, and Node.js. Constructed the individual mountain page template and homepage layout. Implemented the manage reviews feature, including real-time updates to average ratings by interfacing with PostgreSQL. Integrated Multer for review image uploads to the database and ensured proper storage and display of user-submitted images.

Mini Git:

- Worked in a team making file version control software using C++. Collaborated in creating an initial design proposal, the application along with a test suite aimed at testing edge cases.

Elevator Simulation and Analysis:

- Worked with a classmate on a complex elevator simulation utilizing Java. Went over multiple iterations of a design document during development process and successfully advised fictional customer what elevator configuration was optimal using data collection and analysis.

EDUCATION

University of Colorado Boulder — B.S in Computer Science — 2027
4.00 GPA

Los Altos High School, CA — 2023
4.08 GPA

WORK EXPERIENCE

Valet, All About Parking; San Mateo, CA — 2025
- Greet guests and safely operate vehicles in an event setting. Coordinate with team members to manage vehicles, making sure to properly communicate where a vehicle was located.

Server, Culinary Excellence; Oakland, CA — 2021 - 2023
- Unload the truck, set up, serve appetizers, and prepare the buffet. Bus plates and glasses while assisting guests. Break down, clean up, and load the truck.

Camp Counselor, Mountain Camp Woodside, Portola Valley, CA — 2021
- Lead activities for 15 elementary-aged campers. Collaborated with fellow counselors to coordinate events like water activities while building trust with camp leaders through reliability and initiative.

AWARDS

- Defensive MVP of LAHS Varsity Football - Los Altos H.S.

- Outstanding Physics Student - Los Altos H.S.

- Scholar Athlete Award x3 - Los Altos H.S.

- Eagle Award - Los Altos H.S.

- Achieved Dean's List all semesters - University of Colorado - Boulder