Lynx Lu

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SKILLS

Programming Languages:	Python, Java, C#, C++, C, JavaScript, HTML, CSS, SQL, ABAP
Frontend:	React.js, EJS, SASS, React-Router, jQuery
Backend:	PostgreSQL, MongoDB, Knex.js, Express, Flask, gRPC, Protobuf
Additional Tools / Libraries:	Travis CI, Unity Engine, OpenCV, Git, CLI, Linux, Tensorflow

WORK EXPERIENCE

SAP (Vancouver) — 01/2019 | 08/2019
Software Developer / Machine Learning Intern - PRM Team

- Enhanced and maintained flask python backend data preprocessing and feature engineering codebase which improved the model accuracy by more than 20%.
- Developed jupyter reports for evaluating machine learning model performance in production system.
- Developed flask backend routes in flask and implemented statistics UI in React javascript frontend.
- Worked in a global team using agile scrum while contributing to two sub-teams simultaneously.

Bosch (Germany) — 01/2017 | 09/2017
Software Engineering Intern - Sensor Validation Team

- Led the development of C# software from scratch for controlling and managing testflow of sensors.
- Developed many additional internal testing tools in LUA as well as Monte Carlo simulations in C.
- Trained 2 new team members by providing onboarding resources, pair programming, and feedback

PROJECTS

ThingJS - IoT Distributed File Storage | Javascript, IoT — 06/2019 | Present
UBC Laboratory Researcher

- Created ThingJS library extension to support IoT fault tolerant distributed file storage system.
- Created horizontally scalable slaves using the GFS architecture.
- Implemented IoT node to node communication using MQTT protocol.
- Implemented shadow master fault tolerance for file metadata preservation.

Pinpoint - "Hiring Made Easy" App | Javascript, Golang, AWS — 01/2019 | 05/2019
UBC Launchpad Team Software Developer

- Collaborated with a team of 10 students on pinpoint, an app to allow for smoother hiring process.
- Set up user sign-in system with backend calls to AWS DynamoDB.
- Implemented Golang backend modules with TLS secured communication with gRPC.
- Implemented frontend pages in react framework and created helper functions for backend calls.
- Created backend core and gateway authentication method using metadata for authorization tokens.

Sheltermap Web App - 2nd Place Hackathon Winner | Javascript, SQL — 12/2018 | 12/2018

- Implemented backend express server RESTful apis and tied them to frontend as fullstack developer.
- Provided mentorship to new developers in both react framework and mongoDB database design.
- Won 2nd place in Vancouver's local hack day and donated proceeds to a homeless shelter.

Robotank - RL Model | Java   url: https://bit.ly/2E0tMzu — 09/2019 | 12/2019

- Used Q-learning to create a self-improving robot tanks that was able to win at around a 90% rate against most enemy robots within 500 rounds.
- Interfaced with Robotank's Java APIs to implement various types of reinforcement learning methods.

Parking Spot Sharer App | Javascript, SQL   url: https://bit.ly/2VV3qJv — 07/2018 | 08/2018

- Designed and implemented a parking share web app for users to share parking spots around the world by collaborating with two other teammates. (React.js frontend framework with react-router)
- Used MapBox API to display local parking spots from SQL database onto frontend (HTML/CSS/JS)
- Implemented backend RESTful APIs and database query functions for end to end integration.

EDUCATION

University of British Columbia

MEng, Computer Engineering, Software Option	09/2018	05/2020
BASc, Mechanical Engineering, Mechatronics Option	09/2013	04/2018

AWARDS

UBC Local Hack Day Winner - 2nd Place (Out of 54 Teams)	2018
Robocup Competition, SSL Division 3rd place (Out of 25 Universities)	2018
Chancellor's Entrance Scholarship (GPA 95%+), UBC	2013