ANUSHKA BIRLA

Mechatronics Engineering - University of Waterloo

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SKILLS

Languages - C++, Node.js, JavaScript, C, Ruby, HTML, CSS

Tools - ReactJS, Git, Microsoft Azure, AutoCAD, SolidWorks, DialogFlow, Actions on Google, Sketch, Invision

EXPERIENCE

Software Developer - Sun Life Financial **Sept 2018 - present**

- Developed an conversational/interactive voice application on Google Home using JavaScript, Node.js and Microsoft Azure that allows users to search for health care providers and check their Sun Life accounts
- Worked on both public and secure use cases to enable clients to check balances
- Wrote unit tests and performed integration and regression testing
- Won Sun Life's Digital Solutions Hackathon by creating an e-financial advisor that uses Emotional Artificial Intelligence to stay connected with the user and offer relevant advice

UI/UX Designer and Front-End Developer - TD Lab **Jan 2018 - Apr 2018**

- Created workflows, wireframes and interface designs for an iOS app used to increase engagement with the lab within a deadline of 3 weeks
- Built an interactive web application for student financial aid with Agile and Scrum principles using HTML/CSS, Javascript, and ReactJS
- Presented UX design decisions and prototype for the TD Labs app to board-level TD executives

Engineering Intern - Teledyne DALSA **Aug 2016**

- Saved the company around $4000 per year by heading an in-depth analysis of the company's energy costs
- Created educational videos about camera and semi-conductor manufacturing processes

PROJECTS

TO Roam Less - Google Cloud Relay **Dec 2018**

- Parsed data on daily shelter occupancies using BigQuery to surface the 10 closest shelters to the user and placed them on a map using the Google Maps API

MoveBoard - Hack The North **Sept 2018**

- Created a skateboard tracker using Arduino 101 that tracks movements using accelerometer and gyroscopic sensors
- Crafted algorithms to convert raw data into skateboard tricks and displayed them on an interactive website

Self-Driving Robot Alarm Clock **Nov 2017 - Dec 2017**

- Reduced average wakeup time by 6 minutes by designing, programming, and building a self driving robot alarm clock that avoided obstacles and people, played music, and offered interactive games

Founder and President - Vex Robotics **Sep 2016 - Jun 2017**

- Built and programmed a robot using RobotC to quickly and accurately throw objects across a fence
- Delegated roles to members, managing work effectively to compete at regionals

EDUCATION

University of Waterloo **Sep 2017 - Present**

- Candidate for Bachelor of Applied Sciences in Mechatronics Engineering

EXTRACURRICULARS

- **UW Debate team** - semi-finalist at the 2018 North American Womens Debating Championships
- **Engineering Society Director** - leading a team of 100 in planning and running charitable events