ANUSHKA BIRLA

Mechatronics Engineering - University of Waterloo

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SKILLS

Languages - C++, JavaScript, C, Ruby, Java, 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 interactive voice application on Google Home using JavaScript and Microsoft Azure that allows users to search for health care providers and check their Sun Life accounts
- Wrote over 60 unit tests and automated test scripts using Java for 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 app 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

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

Autonomous Robot Alarm Clock   Nov 2017 - Dec 2017

- Designed, programmed, and built an autonomous robot alarm clock that drove around the room avoiding obstacles and people, played music, and offered interactive games
- Reduced average user wakeup time by 6 minutes

CleanSweep - Hack The 6ix   Aug 2018

- Implemented an image processing model that categorizes items in pictures and tells you if you need it in your workspace or not

Founder and President - Vex Robotics   Sep 2016 - Jun 2017

- Built and programmed a robot using RobotC, making it 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