

yaheng su

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skills

Languages Java // C++ // Javascript // Python // Swift // HTML/CSS

Frameworks Node.js // React // Express

Technologies Git // Bash // Android // iOS

experience

TD Innovation Lab · Software Developer Intern

May 2018 - Sept 2018

- Prototyped iOS solutions in Swift and implemented several end-to-end features Waterloo, ON
- Architected a virtual forex wallet app that would **reduce transaction costs by up to 12x**
- Developed iOS SDK for TD Da Vinci API to **reduce API implementation code by 3x**
- Worked with UI/UX to mockup designs and wireframes using Zeplin and Marvel
- Implemented an AR experience using ARKit as a financial literacy tool for children

FIRST Robotics Team 4334 · Software Developer

Dec 2015 - Sept 2016

- Programmed OS for embedded systems robot using Java and Git Calgary, AB
- Architected targeting system using PID algorithms and **improved accuracy by 30%**
- Organized programming workshops for competitors during the Chinese Robotics Challenge

projects

Twatch · Javascript, Node.js, React

- Twitch.tv chat bot that provides chat analytics to livestreamers and chat commands to viewers
- Chat data is analyzed into channel insights and rendered through a web dashboard using React
- Insights include chat activity, chat spamability, viewer retention time, top emotes, top cypypastas
- Commands include followage, uptime, viewers, title, with future support for op.gg and music

JA Sales Helper · Java, JavaFX

- POS interface to electronically track sales for use by local student run businesses
- Analyzed sales data to create market trends for users and visualized trends using JFreeChart
- Features data export options (i.e csv) to serialize data for use in external applications

vidstory · Android, Java

- Vlogging app that lets users record and share videos in a manner akin to snapchat
- Implemented server-side authentication and data storage using Firebase
- Compiles videos into end of day review allowing users to reflect on their day

Werk It · Android, Java

- Android fitness assistant that allows users to customize exercise routines
- Integrated Google Calendar API to let users sync workouts to their calendars
- Implemented user signup and login using Firebase Authentication API

education

B.Asc in Computer Engineering · University of Waterloo

2017 - 2022

awards

4th - Junior Division Calgary Collegiate Programming Competition

2017

Semifinalist - FIRST Robotics World Championship (Team 4334)

2016