

# JULIAN HORVAT

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## PROJECTS

### UOG-MOBILE SERVER

- Ongoing project with the aim of creating a RESTful API for the many UoG online services
- API server built using the Python web framework, Flask
- Most of the work is done by scraping the site with a headless browser, powered by Selenium

### UOG-MOBILE ANDROID

- An Android client for the UoG Mobile server
- App is built according to the Model-View-Presenter paradigm, along with RxJava, Dagger2, Retrofit 2 and more

### BRIGHTSPACE PULSE

- An Android app built to be a mobile companion for students to the Brightspace desktop site
- Designed according to Google's Material Design Guidelines & using modern libraries/paradigms such as RxJava and Dagger
- Developed many individual features, from underlying data structures & networking calls to custom views

### FAN.SI

- Worked on both the Google AppEngine based API & the Backbone.js based front-end
- By the end of my time there, was the lead developer on the frontend responsible for all features
- Features developed included a music player compatible with both browsers & a Cordova app, a live analytics dashboard built with Keen.io & the AppEngine Channels API among many others

## SKILLS

**Programming Languages:** CSS3, HTML5, Java, Javascript, Python

**Android Development:** OkHTTP, GSON, Otto, Dagger, RxJava, Retrofit

**Web Development:** Flask, Jinja2, Google AppEngine, Node.js, Backbone.js

## EMPLOYMENT

### UNIVERSITY OF GUELPH

Undergraduate Teaching Assistant

9/2015 - Current

- TA for Computer Networking (CIS 3210) an introduction to networks, including such topics as network protocols & web technologies
- TA for Introduction to Intelligent Systems, a course teaching the basics of artificial intelligence

### D2L

Junior Android Developer

4/2015 - 9/2015

- Worked on a small team that launched a new product focused on improving mobile user experience for students using the Learning Platform at various institutions around the world

### FAN.SI

Junior Full-Stack Developer

4/2014 - 4/2015

- Second developer on the development team and lead front-end developer for the Backbone.js app

### SAP

Product Support Engineer

4/2013 - 12/2013

- Part of a team that supported SQL Anywhere and Advantage Database Server handling problems ranging from simple questions to show-stopping crashes in production
- Reproduced bugs and worked with the engineering team to fix them
- Wrote Knowledge Base articles when a case had an undocumented resolution for the purpose of deflecting future cases

## EDUCATION

### University of Guelph

B.Comp. Software Engineering 2016

3.6 In-Major GPA