Kevin Zhou

Senior in Computer Science, University of Waterloo

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Work Experience

Institute of Systems Science, National University of Singapore   Singapore
Full Stack Developer   May 2017 - Aug 2017
- Designed an Ethereum blockchain application from scratch to manage legal contract lifecycles, leveraging Vagrant to provision local node clusters for rapid prototyping
- Built case models for a new Python course, and migrated old Angular 1 apps to Angular 4 for existing courses
- Designed a MongoDB database to store student data, and developed solutions to streamline the maintenance process

OANDA   Toronto, Canada
Mobile Developer   Jan 2017 - Apr 2017
- Worked on a major chart trading feature that facilitates 1/3 of all mobile trades, and was involved in all development phases including design and testing. Product page: **goo.gl/B3Snjs**
- Debugged and fixed several long-standing bugs that were previously unreproducible, resolving data overage, battery drain and login issues caused by networking and concurrency problems. Closed several support tickets as a result
- Designed and implemented a microservice API in Scala with Redis as part of an upcoming trade notification feature

Clearbridge Mobile   Vaughan, Canada
Software Developer   May 2016 - Aug 2016
- Implemented drawing of Android Views onto OpenGL surfaces in a virtual reality app, simplifying creation of 3D scenes
- Optimized rendering of complex 3D models, increasing performance from 30 to 60 FPS on mobile devices
- Co-authored a Smashing Magazine article on virtual reality development, analyzing tech limitations and solutions

TD Lab   Kitchener, Canada
Android Developer   May 2015 - Aug 2015
- Developed core features including PIN lock, data syncing, achievements and chores for a money management app
- Improved performance of a graphing library by 170% using more efficient drawing methods

Projects

BasilBook – Work in progress
- A social recipe website built with Vue.js, featuring registration, login, user profiles and recipe editor
- Developed an API using Django REST Framework and PostgreSQL, and automated deployments using Ansible

Weather Post – goo.gl/5QuUsC
- Android weather app with 800 monthly active users and 4.3 star rating based on 120+ reviews
- Developed all features including animated radar imagery, weather notifications, and caching

3DModelResizer (2nd Place, Hack the 6ix) – devpost.com/software/3dmodelresizer
- Built an API using Flask that generates and serves customized models for 3D printing; with online model repository

Discover (Winning Team, Hack the North) – devpost.com/software/discover-npkfv9
- Created an interactive JavaScript map to display satellite imagery and regional statistics

Skills

Languages	Java, Python, JavaScript, C, C++, Scala, HTML, CSS
Tools & Tech	Android, PostgreSQL, Flask, MongoDB, Django, Redis, Ansible, Vagrant, Git, Unix

Education

University of Waterloo   Waterloo, Canada
Bachelor of Computer Science   2014-2019 (expected)