

# Paul Hyungmin Kim

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[www.github.com/paulmkim](http://www.github.com/paulmkim)

## Education

**University of California - Los Angeles (UCLA)**  
B.S. Computer Science

**Expected: 2017**  
Major GPA: 3.51

## Work Experiences

### USA Archery | Electronic Scoring Team

**June 2015-July 2016**

- Managed and operated Rcherz, a wireless archery scoring system built for iOS and Android
- Built on a web server that monitors and organizes the tournament scoring of all archers

### Laboratory for Advanced Systems Research

**August 2015-August 2016**

- Research lab at UCLA under Professor Mario Gerla and Peter Reiher
- Investigates the security and network problems associated with automated vehicles

## Projects

### Mini-Java Compiler

*Source Code Omitted for Academic Purposes*

- Fully functional compiler from Mini-Java, a subset of Java, to assembly language MIPS
- Built a type checker to ensure correctness of input, as well as a parser for Java

### Prereq

<https://github.com/mkachuee/PlainYogurt>

- Web application designed to help users learn by guiding them through a set of sub-topics
- Built with Django with MySQL as database and HTML/CSS/Javascript for frontend
- Tested with Selenium throughout development for regression testing

### NOMS

<https://github.com/paulmkim/NOMS>

- Social event planning application built for Android
- Built with Android Studio, PHP scripts and MySQL hosted by Amazon Web Service
- Load balancing and security measures managed through Amazon Web Service

## Publications

### INTERLOC: An Interference-Aware RSSI-Based Localization and Sybil Attack Detection Mechanism for Vehicular Ad Hoc Networks - Garip, M.; Kim, P.; Reiher, P.; Gerla, M.

- Accepted to IEEE Consumer Communications and Networking Conference - 2016
- Created and tested localization techniques using RSSI values using network simulations

## Relevant Coursework

Introduction to Computer Security  
Operating Systems Principles  
Software Engineering  
Algorithms and Complexity

Computer Network Fundamentals  
Compiler Construction  
Programming Languages  
Scalable Internet Services

## Skills and Interests

**Programming Languages:** C, C++, Python, Java, Ruby, PHP, MIPS, Swift, Prolog, OCaml

**Front End Development:** HTML, CSS, Javascript, jQuery, D3, Bootstrap

**Developer's Tools:** Github, Amazon Web Service, Burp, Ruby on Rails, Django, Visual Studio

**Other:** MySQL, OMNeT++, Tsung Testing, Firewalls, Network Control, Android Development

**Operating Systems:** Windows, UNIX, Linux, Android

**Second Language:** Korean

**Hobbies and Interests:** Competitive Archery, Cooking, Poker, Guitar