

Hemanth Guruva Reddy

EMBEDDED SOFTWARE DEVELOPER · LINUX KERNEL · MECHATRONICS

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Education

Mar. 2010 - Exp. Aug. 2017

Pohang, S.Korea

POSTECH(Pohang University of Science and Technology)

B.S. IN COMPUTER SCIENCE AND ENGINEERING

- Got a Chun Shin-Il Scholarship which is given to promising students in CSE Dept.

Skills

Programming Python, Node.JS, C/C++, Scala, JAVA, OCaml, LaTeX

Web Django, Express, Redux, React, HTML5, LESS, SASS

Languages Korean, English, Japanese, Chinese

Experience

Jan. 2016 - PRESENT

Seoul, S.Korea

PLAT Corp.

CO-FOUNDER & SOFTWARE ENGINEER

- Implemented RESTful API server for car rental booking application(CARPLAT in Google Play).
- Built and deployed overall service infrastructure utilizing Docker container, CircleCI, and several AWS stack(Including EC2, ECS, Route 53, S3, CloudFront, RDS, ElastiCache, IAM), focusing on high-availability, fault tolerance, and auto-scaling.
- Developed an easy-to-use Payment module which connects to major PG(Payment Gateway) companies in Korea.

Mar. 2016 - Exp. Jun. 2017

Pohang, S.Korea

Undergraduate Research, Machine Learning Lab(Prof. Seungjin Choi)

RESEARCHER

- Researched classification algorithms(SVM, CNN) to improve accuracy of human exercise recognition with wearable device.
- Developed two TIZEN applications to collect sample data set and to recognize user exercise on SAMSUNG Gear S.

Aug. 2014 - Apr. 2016

Seoul, S.Korea

R.O.K Cyber Command, MND

SOFTWARE ENGINEER & SECURITY RESEARCHER (COMPULSORY MILITARY SERVICE)

- Lead engineer on agent-less backtracking system that can discover client device's fingerprint(including public and private IP) independently of the Proxy, VPN and NAT.
- Implemented a distributed web stress test tool with high anonymity.
- Implemented a military cooperation system which is web based real time messenger in Scala on Lift.

Jan. 2013 - Feb. 2013

Seoul, S.Korea & LA, U.S.A

NEXON

GAME DEVELOPER INTERN AT GLOBAL INTERNSHIP PROGRAM

- Developed in Cocos2d-x an action puzzle game(Dragon Buster) targeting U.S. market.
- Implemented API server which is communicating with game client and In-App Store, along with two other team members who wrote the game logic and designed game graphics.
- Won the 2nd prize in final evaluation.

Sep. 2012 - Feb. 2013

Pohang, S.Korea

Undergraduate Research, Computer Vision Lab(Prof. Bohyung Han)

RESEARCHER FOR <DETECTING VIDEO'S TORRENTS USING IMAGE SIMILARITY ALGORITHMS>

- Researched means of retrieving a corresponding video based on image contents using image similarity algorithm.
- Implemented prototype that users can obtain torrent magnet links of corresponding video relevant to an image on web site.

Jul. 2012 - Jun. 2013

Seoul, S.Korea

Software Maestro (funded by Korea Ministry of Knowledge and Economy)

SOFTWARE ENGINEER TRAINEE

- Performed research memory management strategies of OS and implemented in Python an interactive simulator for Linux kernel memory management.

Dec. 2011 - Feb. 2012

ShitOne Corp. (Start-up company)

Seoul, S.Korea

SOFTWARE ENGINEER

- Developed a proxy drive smartphone application which connects proxy driver and customer. Implemented overall Android application logic and wrote API server for community service, along with lead engineer who designed bidding protocol on raw socket and implemented API server for bidding.

Sep. 2013, Mar. 2011 - Oct. 2011

SAMSUNG Electronics

S.Korea

FREELANCE PENETRATION TESTER

- Conducted penetration testing on SAMSUNG KNOX, which is solution for enterprise mobile security.
- Conducted penetration testing on SAMSUNG Smart TV.

Extracurricular Activity

Nov. 2011 - PRESENT

B10S (B1t On the Security, Underground hacker team)

S.Korea

CORE MEMBER

- Gained expertise in penetration testing areas, especially targeted on web application and software.
- Participated on a lot of hacking competition and won a good award.
- Held several hacking competitions non-profit, just for fun.

Jun. 2012 - PRESENT

WiseGuys (Hacking & Security research group)

S.Korea

MEMBER

- Gained expertise in hardware hacking areas from penetration testing on several devices including wireless router, smartphone, CCTV and set-top box.
- Trained wannabe hacker about hacking technique from basic to advanced and ethics for white hackers by hosting annual Hacking Camp.

Jun. 2010 - PRESENT

PoApper (Developers' Network of POSTECH)

Pohang, S.Korea

CORE MEMBER & PRESIDENT AT 2013

- Reformed the society focusing on software engineering and building network on and off campus.
- Proposed various marketing and network activities to raise awareness.

Sep. 2010 - Oct. 2011

PLUS (Laboratory for UNIX Security in POSTECH)

Pohang, S.Korea

MEMBER

- Gained expertise in hacking & security areas, especially about internal of operating system based on UNIX and several exploit techniques.
- Participated on several hacking competition and won a good award.
- Conducted periodic security checks on overall IT system as a member of POSTECH CERT.
- Conducted penetration testing commissioned by national agency and corporation.

Sep. 2013 - PRESENT

MSSA (Management Strategy Club of POSTECH)

Pohang, S.Korea

MEMBER

- Gained knowledge about several business field like Management, Strategy, Financial and marketing from group study.
- Gained expertise in business strategy areas and insight for various industry from weekly industry analysis session.