

# JAEHWAN CHOI

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## EDUCATION

**University of California, Irvine**

**M.S., Information & Computer Science**

**( June, 2017)**

**GPA:** 3.2/4.0

- Relevant Coursework : *Computer & Communication Networks, Digital Communication, Wireless Networking, Information Retrieval, Probability Models, Machine Learning, Middleware, Distributed System, Design and Analysis of Algorithm, etc*

**Yeungnam University, South Korea**

**B.S., Information & Communication Engineering**

**(February, 2014)**

**GPA:** 3.5/4.0 (3.82/4.5)

**Graduation Thesis:** *Attendance Check Program and Application using Wi-Fi signal*

- C++ program checking students' classroom attendance through their smart phone's tethering signal
  - Smart phone application turning on/off the tethering signal of students' smart phone according to their class schedule
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## PATENT

**Title:** *Attendance confirmation system using WiFi tethering function of portable terminal and method thereof*

**(Korea Patent Number: 10-2014-0027034 / Date of Patent: March 7, 2014)**

- Patent Holder: Kwonhue Choi, Jaehwan Choi, Soyeon Lee

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## EXPERIENCE

**Programming Language:** C#, JAVA, Kotlin, MSSQL, Visual Basic, C++, JAVA Script, Python, MATLAB

**Work Portfolio:** <https://github.com/jaybychoi/portfolios>

**Woongjin, INC – Operation Support Team**

**(AUG, 2018 - )**

**Hyundai L&C SAP, SFC, COP, EVS**

**(OCT, 2018 - )**

- Maintenance Client's SAP Business One Solution and AddOn Module(Visual Basic)
- Maintenance Client's invoice Approval System, Customer Order Portal System, Sales and Inventory Control System(.NET MVC)
- Maintenance Warehouse Management System Mobile App(Android) & WCF Service

**Ambiance Apparel**

**(JAN, 2019 - )**

- Develop & Maintenance Warehouse Management System(.NET WINFORM)
- Maintenance Warehouse Management System Mobile App(Android) & WCF Service

**General Tool**

**(JAN, 2019 - )**

- Develop & Maintenance Warehouse Management System(.NET WINFORM)
  - Maintenance Warehouse Management System Mobile App(Android) & WCF Service
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- Hanseol** (OCT, 2022 - )
- Maintenance Client's SAP Business One Solution and AddOn Module(Visual Basic)
  - Develop & Maintenance Warehouse Management System Mobile App(Android) & WCF Service
- CJ Foods** (OCT, 2018 - DEC, 2021)
- Develop & Maintenance Client's EDI, Order Management System(.NET MVC)
- New Connect** (OCT, 2018 - DEC, 2021)
- Develop & Maintenance Warehouse Management System(.NET WINFORM), Customer and CSR user Portal System(.NET MVC)
  - Develop & Maintenance Warehouse Management System Mobile App(Android) & WCF Service
- Kumho Tire** (OCT, 2018 - DEC, 2019)
- Maintenance Client's Web Invoice, EDI, Order Management System(.NET MVC)
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**ACADEMIC  
PROJECTS**

**Academic Portfolio:** <http://jaehwanc.devport.co/>

- OPT Researcher at UC Irvine Social Life Networks Lab** (NOV 2017 - AUG 2018)
- Implemented Stress Detection module used galvanic skin response
  - Used moving average, z\_score, deconvolution with impulse response methods
  - Research about eating moment detection used heart rate responses
  - Used supervised machine learning(SVM, Random Forest, etc) with labeled data
- Indoor Positioning System using WiFi tethering function** (MAR 2016 - JUN 2016)
- Used wlanScan(AP signal detection function), got the data about AP signal and SSID
  - Tested the indoor positioning algorithm and the check time to real-time positioning
- Weather Prediction using dataset of rainfall at a location** (SEP 2016 - DEC 2016)
- Used 200,000 observation / 14 features
  - Learner used at this project: Logistic Regression, KNN, Random Forest, Neural Network
- Local Search Engine at UCI ICS domain** (JAN 2016 - MAR 2016)
- Used crawler4j library to crawl web pages and built hash-based index
  - Generated search result pages using page rank, tf-idf scores, match count, html tag type based on query terms
- Packet Retransmission and Channel Burstiness Correlation** (JAN 2016 - MAR 2016)
- Used three ARQ protocols and built a channel simulator based on MATLAB and C++
  - Compared the relation between throughput, error probability and burst length
- Analysis Signal with Rectangular Pulse Shaping for 8QAM** (SEP 2015 - DEC 2015)
- Used signal spectrum based on MATLAB
  - Compared the simulated/theoretical BER for 8QAM
- Vehicle Number Plate Detection Program** (MAY 2011 - JUN 2011)
- Used correlation system based on MATLAB and C++
  - Set up correlation threshold value / programmed matching system of number
- Safe Earphone Application** (JUL 2011 - OCT 2011)
- Used dB threshold system based on JAVA
  - Edited comparing system input sound and threshold / managed UI UX design part
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**Department of Information & Communication Engineering, Yeungnam University**

**Research Assistant**

**(MAR, 2011 – DEC, 2011)**

- Broadband Wireless Communication Lab
- Developed software and computer programs for applications and courses, titled '*Communication Engineering and Digital Communication*'
- Maintained and updated Lab homepage using HTML

**Teaching Assistant**

**(SEP, 2011 – DEC, 2011)**

- Tutored & assisted low-level sophomore students taking *Electronic Circuits* course
  - Arranged electronic circuit experiments to teach students
  - Assisted students in the preparation of term projects
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