

# DONG HYUN CHOI

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## EDUCATION

**Carnegie Mellon University** Pittsburgh PA, USA

M.S. Electrical and Computer Engineering

Dec 2015

B.S. Electrical and Computer Engineering (GPA: 3.56)

May 2015

- Minors: Computer Science, Business Administration

## WORK

**Vinyl Interactive** Software Engineer (Seoul, Korea)

Oct 2012 – Feb 2014

## EXPERIENCE

- Developed interactive UIs and applications using Java and the Processing framework

- Researched & presented new media solutions to global clients and government organizations

**Danal** Software Engineer (Seoul, Korea)

Feb 2011 – Oct 2012

- Created a payment gateway that processed international mobile payments across 18 countries

- Managed web interfaces and led communications for planning out payment flow & restrictions

**Jump Trading** Software Engineer Intern (Chicago IL, USA)

Jun 2010 – Aug 2010

- Constructed core infrastructure modules that supported electronic trading by using C++

- Built price feeds based on real-time NYSE ARCA data and calculated P&Ls per aggregation unit

## PROJECTS

**CountdownTimer for Processing** Independent

Mar 2014 – Apr 2014

- Published an open source utility library for Processing that manages timed events and callbacks

**Media Info Wall for Dongdaemun Design Plaza** Vinyl Interactive

Feb 2014 – Apr 2014

- Designed & programmed a framework for interchangeable media screens and grids using Java

**Interactive Stage for Microsoft Surface Promotion** Vinyl Interactive

Apr 2013 – Jun 2013

- Programmed a touch-based color game for the Surface promotion event using Processing

**Motion Sensing Wall for Seoul Living Design Fair** Vinyl Interactive

Feb 2013 – Mar 2013

- Created a 3x10m interactive wall with Kinect that was introduced in 30+ blogs and websites

**Interactive Hologram Popup Book for ETRI** Vinyl Interactive

Nov 2012 – Mar 2013

- Defined protocols for inter-process hand gesture data and created the contents layer with Java

**International Payment Gateway** Danal

Jul 2011 – Oct 2012

- Built a mobile payment platform for Samsung's App Store with JavaScript and the Rhino Engine

- Developed service maintenance & monitoring tools for administrating transactions with PHP

**Taiwan Telepay Micro-Payment Service** Danal

May 2011 – Oct 2012

- Managed front-end payment windows and built back-end customer managing tools with PHP

**Visual Text Processing with Machine Learning** CMU

Jan 2010 – May 2010

- Performed text recognition based on image processing and SVM models using Java

## HONORS

**Honors Research Program for High Academic Achievements**

Sep 2010, Sep 2014

## AWARDS

**AngelHack Seoul 2013** Most Creative Project: Top 3

Jun 2013

## PATENTS

**Universal Earphone Cord Storage Device**

May 2006 – Aug 2006

## SKILLS

**Programming Languages:** Java, JavaScript, HTML/CSS, C/C++, PHP

**Applications:** Photoshop, MATLAB

**Language:** Korean (Native)

## LEADERSHIP

**Korean Student Association** Board Member

Jan 2008 – Dec 2008