Chingyun Hsu

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Education

California Institute of Technology — Expected 2014 – 2018

Bachelor of Science, Mathematics & Computer Science

1st Term Courses: Combinatorial Analysis, Intro to Abstract Algebra, Differential Equations, Computer Language Shop (C), etc.

Skills

Technical Expertise: Java, Python, C, Android, LaTeX, JSON, Ubuntu, SPSS, EViews, Adobe InDesign, Adobe Fireworks

Languages: Fluent in English and Mandarin Chinese

Experience

Lenovo — Jul 2013 – Jan 2014

Android Research & Development Intern

- Launched Lenovo's new Android web browser (Green Tea) for Lenovo smartphones in a team of seven software engineers
- Developed multiple features including sharing web pages to social media, search suggestion generation, screen rotation and page turn modes, a weather forecast display, etc.
- Implemented a major user interface design update
- Fixed miscellaneous bugs and improved the quality of code as measured by SonarQube

Scientific American — Feb 2014 – Jul 2014

Chinese Edition Intern

- Translated mathematics and computer science news/stories for Scientific American's Chinese Edition

Projects

HuiKaoZhuShou — Jun 2012 – Jun 2013

iOS/Android Application

- Free app helping resource-poor students prepare for high school leaving exam
- 8000+ followers on project page
- A student team of two developers and one designer

Wave for Wave — May 2014

Interactive Game Based on Kinect

- Hand gestures as game control with Kinect and C#
- Game interface and animation with paper.js
- Developed/improved algorithms to recognize certain gestures
- A hackathon team of five

Retail Gasoline Price Prediction — Nov 2012

High School Mathematical Contest in Modeling

- Established a model to predict gas prices in Houston in 2012
- Markov Chain and multivariate time series analysis

Honors

Google Code Jam 2012

International Programming Competition

Ranked 317/20000+

Olympiad of Informatics

Chinese National Finalist / Silver Medal

Top 50/70000+

Interests

Personal Interests: algorithms, natural language processing, machine learning, computational biology, graphic design, art, identifying plants, philosophy of science, piano, classical music, jigsaw puzzles, bridge game, and vegetarian cooking