

Chingyun Hsu

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Education

California Institute of Technology

EXPECTED 2014 – 2018

Bachelor of Science, Mathematics & Computer Science

Courses: Combinatorial Analysis, Intro to Abstract Algebra, Differential Equations, Introduction to Computer Science Research, Computer Language Shop (The C Programming Language), Introduction to Data Privacy (audit), Cryptography (Coursera), Natural Language Processing (Coursera), Machine Learning (Coursera), etc.

Skills

Technical Expertise: Java, Python, C, Android, L^AT_EX, 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
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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

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

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
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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