

Kevin Chiu

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WORK EXPERIENCE

Plastachio LLC - *Technology consulting company*

Seattle, Washington

Founder

1/2009 – 6/2011, 10/2013 – present

- Cryptocurrency / Bitcoin - Mined, traded, sold miners, loaned trading margin, launched mining pool with custom client, branding and merchandise.
- Designed, developed and launched photo-based social mobile application for iPhone and Android for easily organizing events with friends using Sketch, Pixelmator, Objective-C, Java, JavaScript, Node.js, MongoDB, Google App Engine, Amazon S3, Heroku.
- Designed, developed and delivered n-gram crawler and proof of concept natural language search engine for Seattle company.
- Created domain specific language and personalized climate impact calculation framework for an environmental technology company in New York. Trained in-house climate scientists to use the framework. Helped raise early capital. Delivered product to meet investor's budget and timeline.
- Developed multi-endpoint messaging system for a company in San Francisco using Amazon, Ruby, SMS gateways. Co-developed native iPhone client in Objective-C. Helped track and stop the spread of a sensitive information leak.

Microsoft

Redmond, Washington

Program Manager II - Windows Phone Camera Team - Imaging and Algorithms

7/2011 – 10/2013

- Coordinated with planning group, Microsoft Research, and Microsoft Research Asia to spearhead productization of computational photography features including HDR, flash-no-flash, Auto-fix, video stabilization, computational photography APIs.

Microsoft Research

Beijing, China

Research Intern, HCI group, Mentors: Desney Tan, James Landay, and Darren Edge

6/2010 – 9/2010

- Designed, developed, and deployed a location-based Mandarin Chinese language learning application for iPhone.
- Deployed time tracking and time to completion prediction system to manage feature creep and development timelines.
- Created a web service providing real time information updates to clients as well as administrative and remote data gathering tools.
- Instrumented mobile application for remote reconfiguration, user behavior tracking, geolocation while dealing with sub-optimal network conditions and government obfuscation of GIS data.

Google

Mountain View, California

Associate Product Manager Intern, Chrome - Web browser

6/2007 – 9/2007

- Product manager for web developer tools. Responsibilities included research, specification, UI design.
- Polled developers to gather statistics on web development tools for major development platforms as well as current best practices. Used the results to inform the design and development of the Chrome developer tools.
- Contributed supporting decisions on other features when consulted, including the download status bar and early Android efforts.

EDUCATION

Massachusetts Institute of Technology

Cambridge, Massachusetts

Master of Science in Media Arts and Sciences

6/2011

- Research Assistant for Camera Culture with Ramesh Raskar. Concentration in computer vision.
- Teaching Assistant for Eccescopy with Hiroshi Ishii and Ken Perlin. Concentration in mixed / virtual / augmented reality.

Columbia University

New York, New York

Master of Science in Computer Science with Distinction in Computer Vision and Graphics

10/2009

- Research Assistant for three labs in parallel: CAVE with Shree Nayar, IRT with Henning Schulzrinne, and CGUI with Steven Feiner.
- Teaching Assistant for Advanced Internet Services with Henning Schulzrinne.

University of Washington

Seattle, Washington

Bachelor of Science in Computer Engineering with Concentration in Software Engineering

6/2007

- Research Assistant for SEAL Lab with Alexander Mamishev and GRAIL Lab with Steven Seitz.

PATENTS, PUBLICATIONS & AWARDS

Combining Multiple Images in Bracketed Photography

2013

Patent Pending, United States Patent and Trademark Office

Unified method for combining images such as high dynamic range images, flash-no-flash image pairs, and/or other images. *Denis Demandolx, Douglas Alan Ricard, Thomas Lund Dideriksen, Kevin Geeyoung Chiu*

MicroMandarin: Mobile Language Learning in Context

CHI 2011

Location-aware language learning mobile application that provides contextual flash cards based on your surroundings.

Darren Edge, Elly Searle, Kevin Chiu, James Landay

VisionBlocks: A Social Computer Vision Framework

SocialCom/PASSAT 2011

Toolkit that enables kids to develop computer vision applications. Integrated with Scratch.

Abhijit Bendale, Kevin Chiu, Kshitij Marwah, Ramesh Raskar

Slow Display

SIGGRAPH 2010

Painting surfaces with precise UV laser control. *Daniel Saakes, Kevin Chiu, Tyler Hutchison, Biyeun M. Buczyk, Naoya*

Koizumi, Masahiko Inami, Ramesh Raskar

Fill-Front and Cure Progress Monitoring for VARTM with Auto-Calibrating Dielectric Sensors

SAMPE 2005

Hardware and software method for tracking the progress of resin flow in a vacuum-assisted molding process.

Gabriel I. Rowe, Jun H. Yi, Kevin G. Chiu, Jason Tan, Alexander V. Mamishev, Bob Minaie

Graduation with Distinction, Departmental Honors, Columbia University

Full College Honors, University of Washington

Mary Gates Research Scholar, University of Washington

2007 ACM Programming Competition - 3rd place site, 16th place regional

PROJECTS

Phototourism

- Developed and launched online application for Phototourism at SIGGRAPH 2006.
- Featured in various news outlets including Slashdot, ABC, CNN, and BBC.
- Underlying intellectual property licensed to Microsoft via technology transfer and launched as Microsoft Photosynth, a 3D photo collection and registration service. (This is not the panorama-capture mobile app.)

Mobile Development

- Built and released the first Hacker SDK for iPhone by pulling together several online resources into an installer.
- Used Hacker SDK to create the first QR code reader for iPhone before applications could officially be written for iOS.
- Launched QR code reader as open source (GPL)

Languages

- Designed JVM language for simplified photo manipulation called EZIP: Easy Image Processing
- Designed DSL and calculation framework for computing personalized climate impact data.

Research Projects

- Worked in the early stages of combining SLAM with an augmented reality environment on an Army project for assisting with repairs in the field.
- Created online 3D avatar that synthesized believable mouth movements over generated speech when given text input.
- Sped up portion of Navy hardware project by over 100-fold using a physical binary search in place of a linear search.

SKILLS & INTERESTS

Interests: User Experience, HCI, Product Design, Machine Learning, Signal Processing, Business Models, Economics, Finance, Computer Vision, Bitcoin, Startups, Virtual Reality, Augmented Reality, Scalability, Architecture

Skills: Program & Product Management, UX, UI, Ruby, Processing, Hardware prototyping, OpenFrameworks, 3D printing, Lasercutting, Paper Prototyping, Sensors, Rapid Prototyping, Web, Mobile, Computational Photography