

KEVIN N. CHEN

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EDUCATION: **University of California San Diego, Jacobs School of Engineering**, La Jolla, CA,
Nanoengineering major, BS, June 2014

PROFESSIONAL ACTIVITIES:

- July 2017 – Present **Lead Software Engineer, Phunware Inc.** Newport Beach, CA
Information technology company that helps companies engage, build, manage, and monetize their mobile platforms on all phases of the mobile lifecycle.
- Part of the service team that creates Fox Entertainment’s iOS, Android, and Apple TV applications that is downloaded on millions of devices.
 - Apps released include FoxNow, FXNow, NatGeo, FX VIP, and Fox Nation.
 - Lead Apple TV (tvOS) developer for the “entitlements” sub-team that develops Fox’s new features and applications.
 - Responsibilities include developing new features, code reviewing peers for best practices, host meetings to make, clarify, and assign Jira tasks for team, present technical proposals to management, and strategizing future proof architecture.
 - Championed setting up Jenkins and Fastlane for Continuous Integration and architecting a Swift script to automate our team merge and deployment processes.
 - Actively communicate issues and suggestions with upper management and Fox managers to ensure quality builds are delivered on schedule.
- Sept 2014 – Present **Founder and Lead Programmer, KNC Creative.** San Diego, CA
Business focused on conceiving, programming, and marketing of innovative apps.
- Two iOS entertainment apps with custom features approved by Apple
 - Setup Ubuntu server to host websites, scripts, and Jenkins, and Jira software.
- March 2017 – July 2017 **Software Engineer, Elated Inc.** Santa Monica, CA
Software start-up using games as a venue for personality matching.
- Sole Swift developer responsible for architecting, developing, and testing.
- June 2014 – Dec 2016 **Associate Engineer, Fresca Medical Corp.** San Clemente, CA
Start-up company focused on development and commercialization of a lightweight low flow sleep apnea (CPAP) system. Completed clinical trials and submitted 510K in 2015.
- Managed engineering design, validation, and manufacturing of a key component — the mask hose — in preparation for commercialization.
 - Assisted in planning and writing the test, manufacturing, and quality protocols and reports to complete the clinical trials and 510K filing.
 - Participated and presented proposals in business strategy meetings.
 - Inventor on intellectual property: 2 patents and 2 provisional patents.

OTHER ACTIVITIES:

2016 – 2017 **President, Toastmasters of the Cove.** La Jolla, CA

SKILLS & INTERESTS:

Proficient in: Swift, iOS and tvOS development and testing, Backend Development (Perfect, Vapor, MongoDB, SQL, Redis), Scripting, DevOps (Jenkins, Fastlane, AWS, Docker), SCRUM, Jira, hiking/backpacking, and soccer.
Experienced in: Python, Data Analysis and Machine Learning (Pandas, Numpy, Sci-kit-learn, Tensorflow), Solidworks, MS Project, and Linux (Ubuntu).
Knowledgeable in: Objective C, Web Development (JavaScript, HTML, CSS).

PUBLICATIONS:

Fang, R. Hu, C-M, **Kevin N.H. Chen**, Luk, B. Carpenter, C. Gao, W. Li, S. Zhang, D-E. Lu, W. Zhang, L.* "Lipid-insertion Enables Targeting Functionalization of Erythrocyte Membrane-Cloaked Nanoparticles", Nanoscale (2013), 5, 8884-8888.

Che-Ming J. Hu, Fang, Ronnie H., Luk, Brian., **Kevin N.H. Chen**, et. al. "Marker-of-self Functionalization of Nanoscale Particles through a Top-Down Cellular Membrane Coating Approach", Nanoscale (2013), 5, 2664-2668

Fang, Ronnie H., **Kevin N.H. Chen**, Santosh Aryal, Che-Ming J. Hu, Liangfang Zhang. "Large-scale Synthesis of Lipid-Polymer Hybrid Nanoparticles Using a Multi-inlet Vortex Reactor" Langmuir (2012), 28, 13824-13829.

Liang, Min, Masakazu Kamata, **Kevin N.H. Chen**, et. al. "Inhibition of HIV-1 Infection by a Unique ShRNA to CCR5 Delivered into Macrophages through Hematopoietic Progenitor Cell Transduction." J. of Gene Medicine (2010) 12:255.

Shimizu, Saki, Masakazu Kamata, Panyamol Kittipongdaja, **Kevin N.H. Chen**, et. al. "Characterization of a Potent Non-cytotoxic ShRNA Directed to the HIV-1 Co-receptor CCR5." Genetic Vaccines and Therapy (2009) 7:8.

PATENTS:

Ewers, Rich, **Kevin Chen**, et. al. "Apparatus, Systems, and Methods For Treating Obstructive Sleep Apnea." US Patent 9492086. Approved Nov. 15, 2016.

Cragg, Andrew, John Logan, Haim Nissimov, Richard Ewers, Mark Adler, Eugene G. Chen, John Edwin Trusheim, John Nolting, Steve Anderson, **Kevin N.H. Chen**. "Auto-feedback Valve for a Sleep Apnea Device." US Patent 20140246024. Approved Sept. 4, 2014.

Ewers, Rich and **Kevin Chen**. "Composite Construction Air Delivery Hose for Use With CPAP Treatment." US Provisional Patent Application No. 62246477. Filed Oct. 26, 2015.

Ewers, Rich and **Kevin Chen**. "Sleep Apnea Device." US Provisional Patent Application No. 62184787. Filed June 25, 2015.