CHINTAN PARIKH

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Employment

Software Engineer

Pearl Auto, Scotts Valley CA

Dec 14 – Current

- Early employee at Pearl, work on System Software for license plate camera and OBD car adapter
- Primary responsible for Linux system bring up, Power management, BTLE architecture, MFi software support and several system services running under Linux & RTOS
- Led efforts around CAN bus software development for the OBD car adapter
- Brought up prototype platforms using Raspberry Pi and Odroid XU4 for early proof of concept system

Software Engineer

Apple Inc., Cupertino CA

Jan 11 – Dec 14

iOS Motion and Location Group

- Developed a set of new CoreMotion framework API for distance estimation and flights on iOS 8
- Prototyped machine learning regression algorithm on a memory-constrained M7 co-processor
- Innovated Pedometer calibration techniques to reduce error (by 10%), resulted in filing of patents

Special Projects Group, Apple Watch

• Founding member of the software team, worked on implementing fitness algorithm using heart rate sensor, accelerometer to compute total calorie consumption, also developed user data collections apps

iPod Software Engineering

- Led firmware efforts for development of new Lightning connector and Lightning to 30 pin adaptor
- On iPod developed a new interface similar to USB HID to support new connector and accessories
- Worked with MFi and QA teams to ensure compatibility of new adaptor with existing accessories
- Interviewed over hundreds of candidate (phone screen, on site interviews) for positions in the group

Graduate Intern

Cisco Systems, San Jose CA

May - Aug 10

• Developed new API's for managing Lock free Trace buffers and memory tracking through named Malloc extensions; deployed in production software.

System Software Engineer

ST-Ericsson, Bangalore India

Oct 07 - Jul 09

- Module lead for Video Telephony, Call modules in the application stack for 3G reference platform
- Worked with OEM based in China and South Korea to integrate this platform into their phones

Education

Pittsburgh, PA

Carnegie Mellon University

Dec 10

- M.S. in Electrical and Computer Engineering
- · Coursework and research focussed on Embedded Real time systems and broader Computer Systems area

Trichy, India

National Institute of Technology

May 07

• B.Tech. in Instrumentation and Control Engineering

Projects

- Set Solver (Current). Working on an iOS app which detects valid sets from a picture of cards using OpenCV
- Identifying tags from millions of text question (Fall 13). Performed data analysis on 6 million Stack Overflow questions and built a Machine learning classifier for each of the top 500 tags. Report at http://goo.gl/3kb4aN
- x86 Kernel from scratch (Spring 10). Wrote a UNIX like kernel with Multithreading, Preemptive Multitasking

Languages and Technologies

- C++, C, Python, Objective-C, bash, assembly (x86, arm)
- Source control (git, svn), Xcode, gdb