

# Vinu Ilangovan

606 E Stoughton St. Apt. 104, Champaign, IL 61820 | ilangov2@illinois.edu | (847) 714-4389

## EDUCATION

### UNIVERSITY OF ILLINOIS AT URBANA-CHAMPAIGN

B.S. COMPUTER ENGINEERING • CLASS OF 2016

CS374: Algorithms and Models of Computation

CS225: Data Structures

ECE313: Probability with Engineering Applications

ECE391: Computer Systems Engineering

CS425: Distributed Systems

CS418: Computer Graphics

## WORK EXPERIENCE

### CAPITAL ONE

Richmond VA • Summer 2015

SOFTWARE ENGINEER INTERN

- Developed version 2 of an internal Capital One Spring-java web application used for data visualization/manipulation
- Used Amazon Web Services and a RedHat Linux OS to launch and test the development environment
- Developed a mobile tool add-on prototype to ease customer experience with existing Capital One services

### JOHN DEERE

Champaign IL • Summer 2014

iOS DEVELOPER INTERN

- Developed an exclusive John Deere App Store in the form of a universal iOS application (available for download)
- Used external APIs for both networking and data retrieval

## PROJECTS

### LINUX TERMINAL OPERATING SYSTEM • DESIGN CHALLENGE TOP 3

FALL 2014

- Created a Linux terminal operating system by programming its kernel and drivers from scratch
- Features: Process scheduling, Color support, Basic text editor, Read/Write file system, and various device drivers

### LOCKSHARE • HACKMIT TOP 16

FALL 2014

- Developed a system of keyless door locks in the form of iOS applications
- Designed an electrical circuit that opened a physical lock when receiving signals from an Arduino microcontroller

### HEARTBIT • HACKILLINOIS IBM & IMO API PRIZE

SPRING 2015

- Created an automated response system for patients with heart conditions using heart rate monitoring wrist bands
- Developed doctor UI that showed real-time patient data and automatically contacted emergency response on alerts
- Used image recognition to create data stream to mobile app, which checked for heart-rate abnormalities

### DISTRIBUTED CONSISTENCY MODEL

SPRING 2015

- Developed a socket program in Python used for messaging and data passing, implementing various consistency models along with an inconsistency repair synchronization protocol

## ACTIVITIES

### HACKILLINOIS

TECH TALK PRESENTER

- Taught students the basics of Xcode and iOS application development
- Created a location based application that alerted users when leaving a certain set location

## TECHNICAL SKILLS

C • C++ • Objective-C • Java • JavaScript • Python • Node.js • HTML • Xcode • Linux • SQL

## ONLINE PROFILES

[linkedin.com/in/vinuilangovan](https://www.linkedin.com/in/vinuilangovan) • [github.com/vinuilan](https://github.com/vinuilan) • [vinuilangovan.me](https://vinuilangovan.me)