

KARTHIK MUTHUSAMY

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EDUCATION

- ▶ **M.S. (Computer Science and Engineering)**, Santa Clara University, CA | *Graduated 2015 | 3.77 GPA*
- ▶ **B.E. (Computer Science and Engineering)**, Anna University, Chennai, India | *Graduated 2013*

RELEVANT COURSEWORK

Software Engineering, Web programming, iOS Development, Design Patterns, Database Systems, Design & Analysis of Algorithms, Software Development Process Management, Information Security Management, Computer Forensics

COMPUTER SKILLS

- **Languages** - HTML5/CSS3, JavaScript, PHP, SQL, C, Objective-C, Java, Python, Swift
- **Technologies/Tools** - Bootstrap, SASS ; jQuery, Ember.js, Meteor, NodeJS, Handlebars, AJAX, JSON, REST ; MySQL, PostgreSQL, MongoDB, Parse ; iOS SDK - Xcode ; Bower, Git, Markdown ; Photoshop, Moqups
- **Focus Areas** - iOS + Web development ; UI Design, Graphic Design, Prototyping

PROJECTS

- **TEAMS** - Built a **team collaboration** app targeted at students and organizations which includes task management, messaging, file sharing and more. (Winter 2015 ; HTML5, NodeJS & MongoDB [Meteor])
- **TETRIS** - Designed and developed a **Tetris clone** with user profiles and scoreboard features using AJAX, HTML5 Canvas and HowlerJS audio framework. (Fall 2014 ; HTML5, JS, PHP & MySQL)
- **SHIPWARS** - Designed and Developed a **turn-based strategy game** in Java to demonstrate the behavior of several GoF design patterns. (Summer 2014 ; Java & PostgreSQL ; Team of 2)
- **SPARK** - Built a **hyperlocal chat app for iOS** which provides near-range communication without internet access using MultipeerConnectivity and CoreLocation frameworks. (Spring 2014 ; iOS/Objective-C)
- **LELIVRE** - Teamed up with one other person to design and develop a full-featured **online bookstore web app**. (Spring 2014 ; HTML5, JS, PHP & Postgres ; Team of 2)
- **STOCKR** - Collaborated with a team of 4 using Agile methodologies to create a web app and a mobile **app for managing store inventory**. Our client was the Cellar Market store at SCU. (Fall 2013 ; Web app - HTML5, JS & PHP ; Mobile app - Java, HTML ; Team of 4)
- **ZONES** - A **time zone conversion app for iOS** with reminders and maps. (2015 ; iOS/Objective-C + Swift)
- **MKNET** - An **educational site** for Computer Science students. (2009-2013 ; HTML5, JS, PHP & MySQL)

OTHER ACTIVITIES

- Completely redesigned and rebuilt the website of AFLAME Trust, a non-profit organization in India (2015)
- Won over 5 Graphic and Web Design competitions in state and national level events that took place at my university over the course of my undergraduate studies (2010-2013)

LEADERSHIP EXPERIENCE

- **Design and Media Head** - computer science department symposium (2013)
- **Seminar Organizer and Presenter** - on the topic 'Google Chrome OS' (2011)
- **Head Editor** - department newsletter (2010-2012) and college magazine (2010)