

# Milan Dasgupta

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## OBJECTIVE

Seeking a Full-time Software Engineering Position in systems and server-side applications development.

## EDUCATION

B.S. in Computer Engineering  
University of Illinois at Urbana-Champaign  
Expected Graduation: Dec 2015

## SKILLS

### Topics

Distributed Systems • Networked Applications • Systems Development • Embedded Systems • Databases • Algorithms • Data Structures • Information Security

### Languages

C++ • C • Python • PHP  
Java • HTML/CSS • x86 Assembly

### Platforms

Linux • Raspberry Pi • Android

## PORTFOLIO SITES

<http://github.com/milanocookies93>  
<http://linkedin.com/in/milanocookies93>  
<http://devpost.com/milanocookies93>

## AWARDS

RedBirdHacks 2015: 2nd Place Overall  
Boilermake 2014: Best use of Twilio API

## WORK EXPERIENCE AND PROJECTS

### CS 225 COURSE STAFF Jan 2014 – Present | Urbana, IL

- Held office hours to assist students with their data structures assignments.
- Lead Discussion Sections teaching students data structures and basic algorithm analysis.

### CS 196 ASSISTANT Aug 2014 – Present | Urbana, IL

- Presented and instructed freshmen in various CS topics.

### LINKED-LIST MP May 2014 – Present | Urbana, IL

- Developed C++ Assignment to help students understand linked-lists
- Created Snake game which used templated linked list to map snake's cells to coordinates on a map

### WEBSERVER Sep 2014 – Present | Urbana, IL

- Implemented WebServer in C which hosts static content users can access over the network
- Designed service to deploy content from git repository on different platforms such as the Raspberry Pi and Linux distributions

### SOCKET CHAT Sep 2014 – Present | Urbana, IL

- Created distributed chat application using socket API in C for users to communicate over the network
- Had messages encrypted to protect messages from MITM attacks

### PI ALARM CLOCK Sep 2014 – Present | Normal, IL

- Used Raspberry Pi to interface with Google Calender to create an IoT Alarm Clock
- Interfaced speakers with Python program using GPIO pins to make high-pitched noise to alert user

## STUDENT ORGANIZATION INVOLVEMENT

### ACM @ UIUC August 2014 – Present | Urbana, IL

#### SIGOPS AND PROJECTS CHAIR

- Gave tutorials in Systems and Networking topics to ACM Members
- Lead and advised student groups in ACM about their projects

### ECE PULSE August 2014 – Present | Urbana, IL

#### SOFTWARE COMPETITION LEAD

- Developed software contest for the ECE Pulse conference in data structures, algorithms, and information security

### HACKILLINOIS August 2014 – May 2015 | Urbana, IL

#### INTERNAL SUPPORT/TREASURER

- Working with Core Team to prepare Hackathon for 700+ students from around the nation