

# KADHIRASH SIVAKUMAR

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## SKILLS

**Technical:** Python(preferred), C++, C, Java, HTML, CSS, JavaScript, MATLAB, Git, Latex, Scrapy, pandas, PostgreSQL, React, MongoDB, Figma

**Interests:** Basketball, Blogging, Chess, Hiking, Tennis

## PROFESSIONAL EXPERIENCE

### AT&T, Summer Extern

Jun. 2020 – Jul. 2020

- Analyzed leadership, communication, and AI by targeting 80 hours of videos and passing assessments for a certification
- Achieved networking with professionals and other externs on LinkedIn by the increased connections and over 600% profile increase

### UCR Department of Mathematics, Undergraduate Researcher

Nov. 2019 – Apr. 2020

- Maximized the CARRGO model in MATLAB to improve accuracy for CAR-T cell therapy which proved to be 20% effective
- Generated 5000+ glioblastoma cells from L-V equations by coding programs in MATLAB which boosted therapy importance

### Sivdha Consulting, LLC, Software Engineer Intern

Jul. 2019 – Sep. 2019

- Developed client managing platform to help organize and book meetings for clients that improved usability
- Researched processes, data, and documented suggestions that boosted productivity by 10.1%

### Glowiz Inc., Software Engineer Intern

Jun. 2015 – Dec. 2015

- Increased website activity by 20% by restructuring the user interface (JavaScript) which made navigation easier for users
- Learned about the multiple types of IT consulting the company utilized, conducted, and handled on a day-to-day basis

### Hands4Others, Software Engineer Intern

Jun. 2015 – Dec. 2015

- Monitored website traffic and noticed a 15% increase in the United States after creating a Coffee4Others campaign via Google AdWords
- Documented and identified the data of over 100 users for campaigns when visiting the website

## PROJECTS (more on [github.com/kadhirash](https://github.com/kadhirash))

### R'Thread

Jan. 2020 – Mar. 2020

- Extended the xv6 library (C) from MIT by adding thread support via kernel-level threads, user-level threads, and scheduler activation
- Finished kernel-level threads implementation by constructing four separate kernel thread functions and synchronizing via mutexes for optimization.

### Climascape

Jan. 2020 – Mar. 2020

- Altered 48,470 data points on climate trends to prove temperatures have risen by 15 degrees since 1750 using Machine Learning
- Proposed three phases of extracting datasets (Scrapy), cleaning (Python) and performing EDA (pandas)

### Chirp Spot

Apr. 2019 – Jun. 2019

- Synthesized a Twitter Crawler (Python) that retrieved over 200 tweets based on a query and outputs usernames, tweet, and location
- Yielded "scores" and showcased tweets related to the search by implementing a BM25 algorithm

## LEADERSHIP AND AFFILIATIONS

### Theta Tau: Professional Engineering Fraternity, Scribe

Feb. 2019 – Apr. 2020

- Recorded comprehensive and detailed notes and attendance during 20 meetings every quarter and observed a significant increase in member participation
- Led the media and website committees based on changes to the website and increased the amount of Instagram followers by 12%

### FSAE: Highlander Racing, Webmaster

Apr. 2019 – Sep. 2019

- Improved the functionality of the website by adding multiple inner web page links for easier navigations via Squarespace
- Constructed a merchandise portion to allow users to buy apparel and noticed a 5% increase in sales

## EDUCATION

### University of California, Riverside • Bachelor of Science, Computer Science

Jun. 2020

**Relevant Coursework:** Concurrent Programming and Parallel Systems, Data Analysis Methods, Database Management Systems, Entrepreneurship in Computing, Information Retrieval, Introduction to Numerical Analysis, Optimization