Kush Patel

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EDUCATION

University of Illinois Urbana-Champaign, Urbana, IL **August 2016 - May 2020**
Bachelor of Science in Computer Engineering **(GPA 3.3/4.0)**

RELEVANT COURSEWORK

- Computer Systems Engineering
- Artificial Intelligence
- Data Structures in C++
- Data Analytics and Algorithms in R
- Algorithms and Models of Computation
- Probability with Engineering Applications

SKILLS

Programming: C, C++, Python, Ruby, R, Assembly (x86), Django, HTML, CSS
Operating Systems: Windows XP/7/10, Mac, Linux, QNX
Database: SQL Server, PostgreSQL, SQLite
Other: Git, SVN, MS Office, Agile Methodologies

WORK EXPERIENCE

LendingHome, San Francisco, CA **May 2019 – August 2019**
Engineering Internship, Software Engineering Intern
- Will be spending the summer in San Francisco working as a Full Stack Web App Developer
- Tech Stack: Ruby, Python, Ruby on Rails, Javascript, React, Redux, PostgreSQL

State Farm, Urbana, IL **January 2019 – May 2019**
Engineering Internship, Data Engineering Intern
- Working alongside Data Engineering team to manage and analyze various data metrics
- Tech Stack: SAS, Python, C++, Hadoop, Spark

Zebra Technologies, Lincolnshire, IL **May 2018 – August 2018**
Engineering Internship, Firmware Development
- Utilized C++ to integrate photosensors as a more accurate media status alert system on Zebra Printers
- Developed an algorithm to determine threshold for printer's new media status alert system
- Developed an analytical framework to measure and collect printer metadata using C++
- Created database framework in SQLite on the Printer Firmware to locally collect printer data

Zebra Technologies, Lincolnshire, IL **May 2017 – August 2017**
Engineering Internship, Advanced Development
- Improved print quality testing automation through Python and Shell scripting
- Worked on printer early warning detection notification system in C++
- Collected environmental printer data using various sensors, Python scripting, and PostgreSQL databases
- Designed a data analytics dashboard using Django, HTML, and CSS to display data stored in an AWS Database

RELEVANT PROJECTS

- **ByteOS:** Developed a Linux based Kernel from scratch which utilized Paging, System Calls, Scheduling, File Systems, Device Drivers, and Multiple Terminals.
- **Mission Control Arcade Game:** Made replica of the Mission Control game using Assembly (x86).
- **Custom Wristband Printer:** Worked with the team at Project Syncere to develop a python script that allowed kids of all ages who were invited to print their own custom wristband and ID by scanning a provided barcode.