

# Kush Patel

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## EDUCATION

**University of Illinois Urbana-Champaign**, Urbana, IL  
Bachelor of Science in Computer Engineering (**GPA 3.16/4.0**)

**August 2016 - May 2020**

## RELEVANT COURSEWORK

- Computer Systems Engineering
- Artificial Intelligence
- Data Structures in C++
- Data Analytics and Algorithms in R
- Logical Synthesis
- Probability with Engineering Applications

## SKILLS

**Software:** Git, SVN, MS Office, FL Studio, Adobe Premiere, Adobe Photoshop  
**Operating Systems:** Windows XP/7/10, Mac, Linux, QNX  
**Programming:** C, C++, Python, R, Assembly (x86), Machine Code, HTML, CSS  
**Database:** MS Access, SQL Server, PostgreSQL, MySQL  
**Other:** Agile Methodologies

## WORK EXPERIENCE

**Zebra Technologies**, Lincolnshire, IL  
Engineering Internship, Firmware Development

**May 2018 – August 2018**

- 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  
Engineering Internship, Advanced Development

**May 2017 – August 2017**

- 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

**University of Illinois Urbana-Champaign**, Urbana, IL  
Operational Manager, Technology Services

**August 2018 - Present**

- Managed one of the university computer networks that consists of over 100 computers across 6 labs
- Led a team of 60 employees through technical training and lab procedures
- Optimized ticketing system by automating an alert system to notify relevant person in charge
- Printer Troubleshooting, Network Management, Database Maintenance

## 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.
- **Stack Calculator:** Created a basic calculator in assembly which used Reverse Polish Notation to compute math problems. Able to do addition, subtraction, multiplication, division, and exponent function.