

# Kush Patel

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6N381 Acacia Lane, Medinah, IL 60157

## OBJECTIVE

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A curious learner and dedicated team member with 3+ years of industry software engineering experience looking for a fast-paced, progressive company to utilize my customer oriented product skills while developing as an effective engineer.

## EXPERIENCE

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### Amazon

Software Development Engineer

Seattle, WA

April 2020 - Present

- Contributed to real time data processing platform for all Amazon advertising traffic
- Designed new process which reduced the effort to on-board a new marketplace from 6 to 0 developed days
- Interacted with data consumers to prioritize requested feature development and data quality investigation
- Participated in on-call rotation to maintain stability and accessibility of entire AWS data processing fleet
- Created traffic simulation tool in Python which reduced testing effort for new releases and peak traffic days by 50%

### LendingHome

Software Engineering Intern

San Francisco, CA

May 2019 - Aug 2019

- Automated the loan origination process platform using Ruby on Rails in an agile environment
- Developed document based data-capture methods to simplify and expedite the loan process for consumers
- Interfaced with PostgreSQL database and GraphQL to access and modify real-time production loan data
- Practiced test driven development principles by utilizing RSpec as a test framework tool

### State Farm

Data Engineering Intern

Urbana, IL

Jan 2019 - May 2019

- Built a smart reporting module to report errors from the Hadoop Network to various teams based on prior error data
- Utilized SQL to analyze customer behavior data to improve State Farm services by displaying to a Django dashboard
- Saved an estimated 160 analyst hours per year through automation and optimizations

### Zebra Technologies

Firmware Engineering Intern

Lincolnshire, IL

May 2018 - Aug 2018

- Integrated sensors to create a more accurate alert system for detecting media status on Zebra Printers
- Developed an algorithm to determine media status threshold for the printer's modified alert system
- Built an analytical framework within the printer firmware to measure and collect printer metadata using C++

### Zebra Technologies

Advanced Development Intern

Lincolnshire, IL

May 2017 - Aug 2017

- Improved print quality testing results by automating image analytics through Python and Shell scripting
- Collected environmental printer data using external sensors integrated in Python and stored in a PostgreSQL database
- Designed a data analytics dashboard using Django, HTML, and CSS to display data stored in an AWS Database

## SKILLS

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- **Languages & Frameworks:** Python, Ruby, Java, Scala, C, C++, SQL, Shell Scripting, Rails, Django, Spark, Flask
- **Tools:** AWS, Git, RSpec, PostgreSQL, MongoDB, SQLite, Hadoop, Jira, Linux

## EDUCATION

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### University of Illinois at Urbana Champaign

Bachelor of Science in Computer Engineering

Urbana, IL

Expected Dec 2019

**Relevant Coursework:** OS Development, Algorithms and Models of Computation, Artificial Intelligence, Data Structures in C++, Distributed Systems, Database Systems, Communication Networks, Discrete Structures, Probability Principles

## PROJECTS

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**ByteOS:** Developed a Linux-based kernel from scratch in C and x86 Assembly which implemented paging, system calls, scheduling, file systems, device drivers, and multiple terminals

**Media Search Engine:** Created a Python and Django based web application to display information about a TV show or movie on an interactive UI and generate recommendations based on genre tag analysis