

# Sai Pathuri

<http://www.saipathuri.me>

## EDUCATION

Email : [saipathuri@gmail.com](mailto:saipathuri@gmail.com)

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- **University of Texas at Dallas**  
*Bachelor of Science in Computer Engineering; GPA: 3.94*

Richardson, TX  
Aug. 2015 – Current

- **Westwood High School**  
*Diploma; GPA: 4.95*

Austin, TX  
Aug. 2011 – May 2015

## EXPERIENCE

- **Verizon**  
*Part-Time IT Intern*
  - **Android:** Integrated multiple third-party services into the MyVerizon app by collaborating with server teams in Verizon and other companies such as IBM to determine the best service to use. Converted a module of the application into **Kotlin** to steer future development.
- **Verizon**  
*Information Technology Intern*
  - **Android:** Worked on the Android Development team to add new features and create proof-of-concepts to demo possible additions to the MyVerizon App.
  - **Android:** Worked on reverse engineering Android state variables by examining the source code and using techniques such as shifting, masking and other binary operations to determine the state of the phone.
  - **CICD:** Worked with **Jenkins, Docker, and AWS (CloudFormation, EC2)** to automate build and deployment, including code analysis.
  - **Testing:** Worked on automating testing with **AWS Device Farm** using **Python** and **Boto3**.
  - **Hackathon:** Placed in the Top 8 teams nationally in the intern hackathon by developing and presenting an algorithm that intelligently placed antennas in a neighborhood cost-effectively using clustering algorithms such as **k-means** and **DBScan** in **Python** to C-Level execs.
- **Spectra**  
*Technology Intern*
  - **Reports:** Developed an application in **Python** using libraries such as **Pandas** and **xlswriter** to generate a report for clients detailing employee information and feedback.
  - **Spam Detection:** Worked on a classifier to automatically detect spam text messages using **NLTK** and **Python**. I wrote scripts for sanitizing the input in such a way that they could be pipelined and run in any order.

## SELECTED PROJECTS

- **CometCab Tracker:** Created an API for tracking on campus cabs in real time using **AWS Lambda, AWS RDS, AWS API Gateway, Python, Peewee**. Created accompanying **Android** and **iOS** apps that make use of the **Google Maps API**. Created a scraper that scrapes data from the Comet Cabs and store it in a **MySQL database** in **RDS** to prevent high load on tracking services.
- **AccentAnalyzer:** Worked on a team to create an application that analyzes the user's accent and provides them information with percent accuracy of how close they are to an accent. Created the **Android** app that pulled information from API that I built. Built the API using **AWS API Gateway, AWS Lambda and Python**.
- **HomeworkHelper:** Wit.ai, Twilio, Python. Worked on a team at HackUTD to create an AI based assistant to assist college students keep track of their school work.
- **SmartLock: Flask, Bootstrap, HTML, CSS, Flask-Table, passlib.** Implemented functionality in frontend to allow users to see currently connected users, access history logs, modify the access control list and change the username/password. Created the server application which delivered content securely with SSL and encrypted (salted + hashed) the password.
- **CourseTracker: AWS S3, Flask, Flask-ASK.** Individually published an Alexa skill for a competition hosted by the Amazon Alexa team. Implemented functionality that allows students to manage their courses and their assignments using any Alexa-enabled device.

## AWARDS

- **Academic Excellence Scholarship:** Receive full tuition and stipend amounting to about \$18,000 per year.
- **Dean's List:** Top 10% of Students in the CS & Engineering College.
- **1st Place, ACM Projects:** Won first place for my contribution in the Smart-Lock Project in a year long competition with 5 teams.
- **2nd Place, Hack the Dorm Competition:** Won 2nd place in the competition, which was judged based on following the Alexa Skill guidelines, using AWS services, and integrating 3rd party APIs into the skill.

## LEADERSHIP

- **Director, ACM Projects:** ACM Projects is a competitive program with a 20% acceptance rating. Undergraduate students are selected after several rounds of interviews to work on carefully selected hardware and software projects to give them practical experience in concepts like Agile, Git/VCS/SCM, team collaboration.
- **Experience Coordinator, ACM Projects:** Recruited and interviewed candidates seeking practical experience in CS/SE/CE/EE and pick 25 motivated students. Create projects incorporating modern technology. Organize 'Build Nights' for teams to work on projects and provide mentorship.

## PROGRAMMING SKILLS

- **Languages:** Java, Python, Javascript, HTML, CSS
- **Tools:** AWS, Jenkins, Docker, SQL Databases, Git
- **Software:** Android Studio, XCode, PyCharm, Eclipse, Xilinx ISE, TinyCAD, Logicworks
- **OS:** Android, Unix/Linux (RHEL), macOS, Windows