

Akhilesh Yarabarla

SOFTWARE ENGINEER

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Education

University of Texas at Dallas

Richardson, TX

B.S. IN COMPUTER SCIENCE, MINOR IN NEUROSCIENCE

3.2 GPA, Aug 2014 - Dec 2017

- Received AES full ride scholarship

Experience

Capital One

Plano, TX

SOFTWARE ENGINEERING INTERN

Fall 2017

- Cleaned up data and created tables/views in *PostgreSQL* of employee data for use by data scientists
- Used *Spark MLlib* with *Scala* to build a machine learning model that accurately classifies employee access roles, automating a process that was previously done manually
- Worked on production backend for employee role webapp using *Node.js*, *Express*, and *PostgreSQL*

Nordstrom

Seattle, WA

SOFTWARE ENGINEERING INTERN

Summer 2017

- Created an *AWS Lambda* ETL pipeline in *Python* to load customer and sales data from *AWS Redshift* to *AWS S3*
- Used CRISP-DM data science process to leverage terabytes of data to build an actionable model using *Scala* and *Apache Spark* that predicts whether sales will be returned, achieving 10% greater accuracy than previous solution
- Built a web application in *Scala* that displays predicted store revenue loss and salesperson commission loss due to returns

HackDFW

Dallas, TX

LEAD ENGINEER

Summer 2016 - Spring 2017

- Directed a team of 6 developers in building a registration and participant management system, a website, and a puzzle platform for the largest student hackathon in Texas
- Built a checkout system that facilitates the lending and tracking of hardware at hackathons using *Node.js*, *MongoDB*, and *React*

Research Now

Plano, TX

SOFTWARE ENGINEERING INTERN

Fall 2015

- Built a service that analyzes real-time routing logs and API calls to identify anomalies using *Scala* and *Spark Streaming*
- Implemented a service in *Scala* that logs significant events into *Cassandra* and messages managers using *Twilio*
- Created a dashboard that displays important log information in real-time using the *Play* framework and *Chart.js*

Projects

Pragati

PERSONAL PROJECT

- Private media library web app that allows users to granularly track their progress, eg. episodes of a show
- Built using *Node.js/Express* with *GraphQL*, *React*, and *SQLite*

Crisp

DUBHACKS- BEST USE OF AWS

- iOS app that scans grocery receipts to identify perishable foods and alerts users when food is about to expire
- Built backend using *AWS Lambda*, *API Gateway*, and *DynamoDB*

Spin to Win

HACK PRINCETON- TOP 10, MOST TECHNICALLY CHALLENGING, GOOGLE MOONSHOT AWARD

- Functional rotating 3D scanner for less than \$20, using a 10¢ reflective IR LED for scanning
- Wrote backend that processes and transforms raw IR pings into the object's 3D representation using *Node.js* and *Mathematica*

Skills

Languages Javascript, Scala, Python, Java, SQL, HTML/CSS

Technologies Node.js, Apache Spark, Git, AWS, Apache Zeppelin, React/Redux, Docker, SQLite, PostgreSQL, Firebase, MongoDB, Redis, Flask, Chrome Extensions, JQuery