

# Rahul Nayak

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## Education

2016      Bachelors in Technology - Computer Science from Indian Institute of Technology, Kanpur

## Work Experience

### Software Engineer at Y Media Labs, Bangalore

*Jul, 2017 – Present*

- Built **supporting backends** for various **Alexa skills** that uses the APIs from **Alexa Skills Kit**
- Built various **bots** for **Messenger platform**
- Designed and developed several **server-side RESTful services** involving **database interaction**
- Worked on transforming an application from **monolithic** to **microservice architecture** thereby making each service running in **docker containers independently deployable**
- Ensured **smooth functioning** and **performance** of the built services
- Responded to **critical problems** of systems by preparation of complex codes
- Worked extensively on **Data Science** field
- Worked on **Big Data** tools like **Apache Spark, Hadoop, Hive, Pig** and **Azure Event Hubs**
- Developed **terraform modules** for various **AWS services** like **EC2, EMR, S3, Lambda** and **RDS** to interact with them
- Drove **new and innovative solutions** and built **POCs** to meet **business needs**
- Collaborated with co-workers on backend tools and stuffs
- Won **YML Hackathon 2018** in **Innovative/Futuristic** category

### Software Engineer at Practo Technologies Pvt. Ltd, Bangalore

*Sep, 2016 – Jun, 2017*

- Was a part of **Practo Drive Team** to give users a **common platform** for all useful information retrieved from **various Practo products**
- Integrated **images shared** during **consult** into **Patient Drive** by pushing the **image urls** along with other information in a **Beanstalk queue** and then retrieving them to insert images into **S3 Bucket** and other information in **MySQL database**
- Worked on frontend too using **ReactJS** and **Sass** (CSS extension language)
- Modified the **sending pattern** of **SMS messages** for **records shared** by following certain rules

### Summer Intern at Juniper Networks India Pvt. Ltd, Bangalore

*May – Jul, 2015*

- Developed an **automated unit testing framework** for testing the **functionalities** of **ephemeral configuration database**
- Implemented by developing **Ruby scripts** whose purpose was to test various **test cases** which runs through **ephemeral configuration database**
- Wrote a **Ruby script** to automate **the initialization and killing of processes** required by **ephemeral database** to work

## Projects

### Two Player Chess Game

- Built a **simple terminal-based two player chess game** in **Haskell** language
- Used **unicode symbols** and **ansi-terminal package** for displaying chess board on terminal
- Packaged as a **cabal package**, the standard way to distribute **Haskell libraries** and **application**
- **Github:** <https://github.com/nayakraahul/haskell-chess>

## Attendance Marker

- Built an **android app** to **keep track of the attendance of various courses**
- Uses **GPS location** of the mobile device to mark the attendance
- Used **Android Studio** as primary **IDE** for **Android application development**
- **Github:** <https://github.com/nayakrahul/AttendanceMarker>

## Perl to MIPS compiler

- Implemented an end to end **Perl compiler** for **MIPS architecture** in **Python** language
- Used **Lex** and **Yacc** for implementing **lexer** and **parser phase** of **compiler** respectively
- Supported **static data structure**, **arithmetic operations**, **conditional statements**, **branch statements** and **simple functions calls**
- **Github:** <https://github.com/nayakrahul/PerlCompiler>

## Online Homepage Maker

- Built a **website** using **XAMPP** and **Bootstrap** which helps people to design their own homepage without writing any code
- Implemented by developing **PHP scripts** which append the **users' submitted details** into **pre-existing HTML files** in appropriate places
- **Github:** <https://github.com/nayakrahul/Automated-Online-Homepage-Maker>

## Cricket-CLI

- Built a **command line interface tool** for cricket lovers
- Displays matches, scores, summary, calendar, playing XI and player stats on terminal.
- **Github:** <https://github.com/nayakrahul/cricket-cli>

## Skills & Abilities

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- **Languages** - C, C++, .NET Core, Python, Ruby, Haskell, Java, HTML, Sass, ReactJS
- **Tools** – Git, Sentry, AWS, Apache Spark, Apache Solr, Apache Hadoop, Apache Pig, Apache Hive, Terraform, Docker
- **Data Science Tools** - Pandas, Numpy, Matplotlib
- **Database** - MySQL, Microsoft SQL
- **Operating Systems** - Windows, Linux, Mac OS