

Gautham Kumar

PERSONAL DATA

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EDUCATION

NATIONAL INSTITUTE OF TECHNOLOGY - TRICHY

B.TECH IN COMPUTER SCIENCE

MINOR IN ECONOMICS

Expected May 2019

Cum. GPA: 8.93 / 10.0

Tiruchirappalli, India

SRI SANKARA SENIOR SECONDARY SCHOOL

HIGH SCHOOL

Computer Science Stream : 95.8%

Grad. May 2015 | Chennai, India

LINKS

Github:// [gauthamk97](#)

LinkedIn:// [gauthamkumar](#)

Blog:// [petergautham](#)

SKILLS

PROGRAMMING

Languages:

Java • Python • Go

Swift • Bash

Web Development:

CSS • JavaScript

HTML • SQL

Tools:

Xcode, Git

COURSEWORK

UNDERGRADUATE

Data Structures & Algorithms

Operating Systems

Database Management Systems

INDEPENDENT

Unix Tools and Scripting

iOS Application Development

Web Development

CO-CURRICULAR

Delta Force Programming Club

Captain, School Debating Team

Festember Marketing Team

EXPERIENCE

AMAZON | SOFTWARE DEVELOPMENT ENGINEERING INTERN

May 2018 - July 2018 | Greater Seattle Area

- Worked on backend solutions for Amazon's Internal Deployment Tool - **Apollo**.
- Successfully wrote and deployed a service to migrate Apollo's deployment information out of Oracle and into **DynamoDB**.
- Migrated an expensive API to use this new service and saw a **15x improvement in Max TPS** and a **16x improvement in latency**.

DOVEL TECHNOLOGIES | SOFTWARE DEVELOPMENT INTERN

June 2017 - July 2017 | McLean, Virginia

- Dovel Technologies provides software solutions for Federal agencies.
- Improved security of Dovel's Grant Provision product - inForm - by implementing **CSRF Protection** using Java's Spring framework.
- Worked on migration of their database from Oracle to **Datomic** using **Clojure**.

ZOHO CORPORATION | SOFTWARE DEVELOPMENT INTERN

Dec 2016 | Chennai, India

- Improved employee efficiency by developing an iOS Application using **Xcode** and **Swift** that provided report data to Zoho Employees on-the-go.
- The application displayed the data using animated graphs and color coded tables and incorporated **token based authentication**.

PROJECTS

DALAL-STREET | GOLANG

Dec 2018 - Feb 2019 | Source : [github.com/delta/dalal-street-server](#)

An online **virtual stock market exchange**

- Rewrote stock price calculation logic to use a **weighted average** system.
- Implemented **tax charges** when players make profits.
- Wrote unit tests for the matching engine module.

LYRICS-DL | PYTHON

June - August 2017 | Source : [github.com/gauthamk97/lyrics-dl](#)

A **Command Line Tool** I developed that scrapes and saves song lyrics from AZLyrics.

The tool is live on **PyPI** ([pypi.python.org/pypi/lyrics-dl](#)).

- Save the obtained lyrics in **mp3's metadata**.
- Accepts artist and song details through a prompt if needed.
- Uses **urllib** to send requests, **beautifulSoup** to parse the HTML, and **eyed3** to access the metadata of the mp3 files.

AAVEG | SWIFT, XCODE

Nov 2016 - Jan 2017 Source : [github.com/gauthamk97/aaveg-ios-app](#)

An **iOS Application** I developed for the cultural festival of the same name. The app delivers the latest news, scores, blog posts and event results.

- Incorporates a multipage design with animated graphs, an **interactive splash screen** and **push notifications** using **Firebase**.

AWARDS

2015 100%

2015 First Place

2013 1st in State

2012 Best Speaker in the State

2011 2nd in State

CBSE Computer Science Board Examination

What's New Debating Competition

National Cyber Olympiad

Indian Schools Debating Society

NTSE Scholar