

NAIR SAARIKA BHASI

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EDUCATION

Bachelor of Technology (Computer Science Engineering)
Amrita Vishwa Vidyapeetham University, India

CGPA 6.06/10.00
May 2014

SKILLS

Languages: Python, C, C++, Linux Shell scripts, JavaScript

Databases: MySQL, PostgreSQL

Web Technologies: HTML5, CSS, Bootstrap

Frameworks: Django, Flask, Jinja2

OS: Linux/Unix

Tools: Git, Eclipse IDE, NetBeans, Microsoft Visual Code, Valgrind, Cscope

Cloud platform: Heroku

PROFESSIONAL HISTORY

HCL Technologies, India

Aug 2014 – Oct 2017

Software Engineer

- Led the technology set-up for RTSP streaming protocol application team.
- Performed root-cause analysis, documenting (design/technical specifications), providing hot fix and patches for customer incidents.
- Implemented '250 playlist segments support' functionality in product with support of live video on demand features.
- Planned, designed and developed user interface tool to support authentication and content streaming requests to application server.
- Automated product testing, developed using Python (**Reduced manual testing effort by 60%**)

PROJECTS

PostIT – an Ad portal

Web application to find Handyman, Electrician or Plumber. Customers can create new advertisement. Technician may apply for the advertisement and communicate with customer through the application. Schedule an appointment and provide a feedback.

- Email validation using one time activation link
- Send Notifications
- Auto-delete old/completed appointments.
- Implementation: **Server-side: Python, Django** framework, **Client-side: JavaScript, CSS and HTML.**
- APIs: **Google Maps JavaScript API, Google Places API and Fetch API**

Wikipedia

Wikipedia clone developed for displaying webpages for varied topics. Uses Github Markdown Syntax to write or edit webpages.

- Developed a **Python package 'markdown'**, using **Python Regex**, converts Github markdown to HTML

- Implementation: **Server-side: Python, Django** framework, **Client-side: CSS and HTML**

Social Network

Web application where user can write a new post, follow/unfollow other users, like and unlike posts and delete post

- Implementation: **Server-side: Python, Django** framework, **Client-side: JavaScript, CSS and HTML.**
- APIs: **JavaScript Fetch API**

Book review website:

Built a website for book review and search books.

- Implementation: **Server-side: Python, Flask, SQLAlchemy**, **Client-side: Jinja2, CSS and HTML**
Database: PostgreSQL
- APIs: **Good reads API** and **Google books API**

Chat application:

Developed web based slack clone for communicating through channel. User can search, create or join a channel, see previous 100 messages and send attachments.

- Communication channel(s) implemented using **Flask-SocketIO**
- Implementation: **Server-side: Python, Flask, Flask-SocketIO** **Client-side: JavaScript, Jinja2, CSS and HTML**

Native Java to Compiler:

Designed and developed a Compiler that converts Java program to C.

- Involves various Compiler design phases
- Efficiency : **Converted C program found to be 40% faster than Java program**

CERTIFICATIONS AND AWARDS

- CS50W: CS50's Web Programming with Python and JavaScript- **HarvardX**
- **'SPARK'** award for outstanding contribution towards Cisco Content Delivery Systems
- Aspiring Minds- AMCAT certification in Business Analysis, Proficiency in English and Data processing Specialist

PUBLICATIONS

- Published research findings for Native Java to C compiler. Published by **International Journal of Emerging Technologies in Computational and Applied Science (IJETCAS)**

ACTIVITIES & SOCIETIES

- Event Manager and Organizing committee for ANOKHA '14(National level Inter-College)
- Event Coordinator for 29th CSI National Student Convention(NSC)
- Volunteered in organizing 2011 ACM ICPC Asia Amritapuri Regional Contest
- Volunteer in Amala Bharatham Cleanup Drive (ABCD) - an initiative by Amrita University to organize cleanup drives around Coimbatore City.
- Participated in Hackathon contest conducted by HCL Cisco Offshore Development Center 2016.