

SAURABH S. RANA

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saurabhrana.com

SKILLS

- **Languages/Libraries** – C++, Java, Angular 8, JavaScript(ES6), PHP, NodeJS, ExpressJS and SASS
- **Other** – Distributed Cache: Redis/Memcached, MySQL, MongoDB, Bash Scripting and RESTful service development.

WORK EXPERIENCE

Web Developer

August 2017– May 2020

DDC Public Affairs, Washington, D.C.

- Accomplished a reduction in error log reading time by 90% by developing a NodeJS web app that reads XML log files of 500+ production sites in real time and displays it in a clean tabular manner.
- Developed a website for Home Depot's biggest action campaign that generated ~15k signatures to lower the tax rates and increase wages for the employees.
- Wrote a Python script which updates production sites and effectively minimizes the manual deployment process.
- Lead the migration of obsolete PHP components to modular React components which made the website load 2.5x faster, SEO friendly and more robust.
- Developed a git submodule for SAML Single Sign-On (SSO) which includes the ability to support multiple IDPs. This add-on increased the company's revenue by 3%.
- Lead the migration of 200+ legacy websites from Concurrent Versions System (CVS) to Git.

PERSONAL PROJECTS

- **Meow!** Angular, MongoDB, ExpressJS, NodeJS
Demo: <https://mittens-meow.herokuapp.com>
Designed and developed a simple Twitter clone and deployed it to Heroku. A user session is maintained using JSON web tokens and login passwords are stored in hashed.
- **Real Time E-Commerce** Angular 8, Firebase 4, Bootstrap 4
A minimalistic single page application (SPA) e-commerce app like Amazon with features like authentication, authorization, check out, placing order and admin access to a user to manage products.
- **C++ Word Indexer** C++
Designed and implemented a multi-threaded text file indexing CLI application that counts words and their frequencies. Master table in memory shared between all threads keeps track of all unique words.
- **Simplified Peer-to-Peer System (BitTorrent)** Java
Developed a Peer to Peer file sharing application.
- **React Movie Search** React, jQuery
Demo: <http://www.saurabhrana.com/react>
A responsive React app that fetches movie data from The Movie Database API on demand.
- **Angular Quiz Application** Angular, Bootstrap
Demo: <http://www.saurabhrana.com/angular>
A responsive SPA with a little learning "Facts" area for users to swot up before they take the quiz. The user will then get their results when they are finished.
- **Others:** [NodeJS Chat App](#), [TechCrunch Search Engine](#), [Creating RestAPI Routes](#)

WORK PROJECTS

[Middle Class Project](#), [Power in Coop](#) & [Nationwide Low Rates](#)

EDUCATION

Campbellsville University, Kentucky

June 2020 - Present

Master of Science (M.S.) in Information Technology Management

University of Florida, Gainesville, FL

Master of Science (M.S.) in Computer Science (GPA: 3.26)

Jan 2016 – May 2017