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DAMODAR DAHAL

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EDUCATION

Hammond, LA **Southeastern Louisiana University** **Aug 2016-May 2020**

Majors: Computer Science (in-major GPA: 3.875), Mathematics, and Physics

Programming Coursework: Algorithms and Data Structures, Operating Systems, Advanced Networking, Automata, OOP, Machine Learning (Coursera, Stanford University), Cryptography (Coursera, Stanford University)

EMPLOYMENT

Software Consultant **Department of English, Southeastern Louisiana University** **Jan 2018-present**

Early Ruskin Manuscripts (erm.selu.edu): One of the biggest web archives for John Ruskin

- Migrated legacy site to modern stack for wholesome improvements in security, architecture, UI, and UX by shifting from PHP5/MySQL/jQuery to Node/Babel/Koa/Mongo/React/Bootstrap/SASS
- Minimized deployment time from hours to a couple minutes using automated bash scripts (ssh/rsync)
- Used socket.io to provide full duplex communication between client and server for displaying live updates
- Leveraged knowledge in React+Redux, Express, SSR, socket.io, isomorphic applications, effectively using Chrome Developer pane, mobile friendly UI design, and Linux

Software Developer **GCR, Inc.** **Apr 2017 - Jan 2018**

Virginia State Cabinet Filing System

- Designed a unit testing framework for an enterprise application built on .NET WebAPI
- Incorporated complex business rules for matching payments with filings using a breadth-first search algorithm
- Implemented a SQL stored procedure to discover inconsistencies in DB caching used for reducing joins
- Leveraged knowledge in C#, MVC, .NET Framework, MS-SQL, Visual Studio, Agile (Sprint-based iterations), Enterprise systems, leadership and communication, Team Foundation Server (TFS), and unit testing

Software Engineer, Co-founder **8byte Creative Studio (startup)** **Jan 2015-Mar 2017**

- Piloted and developed 3 cross-platform mobile applications using Ionic.js and Angular.js.
- Developed APIs for a 9gag-like android app for curated video playlists using Flask, MongoDB, and push notifications
- Learnt effective application development approaches by directly managing and developing 5 client projects
- Managed deployment of web applications on a CentOS server as well as deployment of Android applications
- Attained effective communication skills by coordinating in various teams of 5-10 people and by interacting with clients
- Leveraged knowledge in Python, Flask, Mongo.db, git, Node.js, Express.js, project management, bash, Linux, deployment, DevOps, Ionic, Angular, PHP, WordPress, CodeIgniter, communication, marketing, and promotion

SOFTWARE PROJECTS

Personal Website: www.damodar.me (for additional information and projects)

EEG single-trial classification: github.com/underscoredam/shin2017-reproduction

- Utilized Anaconda framework to Increase accuracy of an SVM classifier for an EEG dataset (IEEE) from 75.6% to 80.4%.

Rubik's Cube Solver: github.com/underscoredam/rubiks-cube

- Utilized Python/VPython to build a 3D Rubik's cube emulator and solver

To Mars and Beyond: github.com/underscoredam/to-mars-and-beyond

- Utilized Python/VPython and matplotlib and bash to write a 2D/3D rocket simulator

Others: Automatic Birthday Email Sender (Google Cloud, Django, OAuth), I3-supersaiyaan-blocks, a custom taskbar (Python, Linux), NordVPN Speedtest benchmark (Python), Mobile app for university's Business Week (Ionic, Angular, CouchDB)

AWARDS

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- Louisiana State Champion, ACM ICPC (2017/2018, 2018/2019)
 - Top 24 among 750 mobile application ideas, Ncell App Camp, Nepal (Dec 2015)

SKILLS

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- *Proficient:* Python, JavaScript, Node, Linux, Git, React, Express, Flask, Bash, Mongo.db
 - *Familiar:* Anaconda, C++, C#/.NET, Angular, unit testing, MySQL, docker