Nischal Badarinath Kashyap

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Objective

Self-motivated student with a Master's degree in Computer Science and a work experience of 2 Years as a Software Developer. I will be seeking a Software Engineer role for a full time opportunity starting May 2021.

Education

North Carolina State University, Raleigh, USA
Masters in Computer Science
May 2021 | CGPA - 3.56

Visvesvaraya Technological University, Belgaum, India
Bachelor of Engineering in Computer Science
May 2017 | First Class with Distinction

Skills

Programming Languages - C, Embedded C, C++, Python, JAVA, UNIX Systems Programming, MySQL, HTML, CSS, JavaScript
Technologies - Perforce, TeraTerm, DLT Analyser, CPAS, WinScp, Sodera, Ellysis, JIRA, Elvis, GitHub, Frontline, Crucible, Confluence, Buildcentral, GNU Debugger, mediactl, ioctl commands, keras, scikit learn, BootStrap
Framework - Bluetooth Specification, Harman Framework, Connectivity Framework, File in User Space Systems(FUSE), Django
Coursework - Algorithms, Operating Systems, Networks, Data Structures, Object Oriented Programming, Data Mining, Artificial Intelligence, Database Management Systems, Software Engineering

Work Experience

Graduate Teaching Assistant - North Carolina State University Aug 2020 - Present

- Teaching Assistant for the course BUS 443 Web Development for Business Applications.
- Assist professor in preparing the coursework for the semester and aid students by clarifying concepts and evaluating them.

Wipro Technologies - Harman International(Client) Oct 2017 - Jul 2019

- Software Developer in the Connected Car division for Harman International Account for bluetooth media module. Skilled in middleware development and maintenance of Bluetooth profiles such as A2DP, HFP, BIP and AVRCP for higher end projects.
- Debugged issues on AVRCP browsing, AVRCP commands, Events, Responses and Audio Buffering issues reported from clients.
- Resolved crash/memory issues using backtracking methods with the help of core dumps using GNU Debugger.
- Implemented a Bluetooth Feature Request - AVRCP STOP Command for Harman using mediactl.

BSNL - Project Trainee Jan 2016 - Jun 2016

- Implemented an algorithm for User ID automation in Python which required mapping between the user and the port assigned to.

Projects

- **Connection - Python, Django Framework, JavaScript, HTML, CSS, SQLite**
  Created a Web based Application with User Interface. The users upload their family members as objects onto the website. On a broad scale with abundant data, the application will find out whether members are connected using tree search methods.
- **Pokemon Battle - Python(Socket Programming)**
  A pokemon game implemented using socket programming with two trainers able to battle out each other by selecting pokemons from the given roster. The game's implementation is in the initial stage with the backend logic being coded.
- **Database Management Systems - JAVA, MySQLand JDBC**
  Designed a database for an online library system to make book transactions and receive orders from distributors. The application level programming was written in JAVA while MySQL was used to perform queries on the database internally.
- **Arrhythmia Classifier - Python, KNN K FoldCV, Random Forests**
  Developed a K Fold Cross Validation KNN algorithm from scratch to classify the arrhythmia dataset using major attributes. This was part of the course project and the algorithm obtained an efficiency of 68% in classifying the right data points.
- **United States Path Routing - Python**
  A Depth First Search, A* and Recursive Best First Search algorithms were implemented to find the best path between a source and a destination in a map dataset provided by the instructor.
- **Data Analytics - Python**
  Developed an AI model based on Bloom's Taxonomy that was capable of converting a prolonged lecture video to a short summary video. A user defined word set was initially defined and data analysis was performed using NLP and Google API's.
- **Security and Robotics - C, Embedded C, Python and MySQL(Socket Programming)**
  The project was developed to have multiple robots perform serial verification and authentication of users while being autonomous. This was intended to be a prototype to a larger scale project. The project was recommended for copyrights.

Activities

- **Athletics** Represented North Carolina State University's Cricket Team. School and College Level Volleyball Player.
- **Leadership** Marketing lead for College Fest Semaphore 2015. Leader of fest promotion teams marketing at various colleges.
- **Volunteer** Event Organizer at Semaphore 2014 and 2015. Women's Day Host at Wipro Technologies for March 2018.
- **Academics** 10th Rank in Math Talent Exam for Bangalore. College Topper in Operational Research Course.