Varun Kulkarni

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Education

GEORGIA INSTITUTE OF TECHNOLOGY, College of Computing   **Atlanta, GA**
Candidate for Bachelor of Science in Computer Science   *Expected May 2022*
Threads: Information Internetworks & Intelligence
GPA: 3.11, CS GPA: 3.50
Relevant coursework: Discrete Mathematics (In Progress), Computer Organization & Architecture (In Progress) with C, Multivariable Calculus (In Progress), Data Structures and Algorithms in Java, Object Oriented Programming, Linear Algebra

Leadership

Student Center Programs Council, Georgia Tech   **Atlanta, GA**
Backend Developer   *March 2019 – Present*
- Creating and implementing backend APIs for SCPC's website which will be used to display campus events, facilitate sign-in, attract sponsors, and provide information about SCPC
- Utilizing NodeJS with Express and MongoDB servers to host and request data, create routes and protocols to access the data from front-end React-based web app

FIRST Robotics   **Fairfax, VA**
Lead Programmer, Member of Design Team   *June 2009 – March 2018*
- Constructed and programmed robots to complete tasks autonomously and with user input quickly against other robots.
- Pioneered transition to new control system using new Android APIs and previous generation Motor Controllers.
- *Notable Awards:* FTC Regional Competition Finalist (2014), FTC Rockwell Collins Innovate Award (2015), FRC Regional Competition Judges' Award (2018)

George Mason University, Aspiring Scientists Summer Internship Program   **Fairfax, VA**
Software Intern   *June 2017 – August 2017*
- Utilized Javascript libraries to create tools in a pastebin editor that enhanced Javascript development and debugging experience for other programmers
- Led a team to implement a feature seamlessly into the current structure of the pastebin without compromising user experience

Projects

EcoCAR Collegiate Competition   *Beginning August 2019*
- Project team which aims to reduce the impact on the environment from transportation by constructing and presenting a connected/autonomous vehicle with reduced gas emissions and alternative energy source integration
- Will be on CAV sub-team designing systems to drive autonomously and use energy efficiently

Twogle: Semantic Search Engine   *October 2018*
- Uses Google Cloud Platform, Microsoft Azure ML APIs and PHP to create a search engine that can keep track of preferred user sites with cookies
- Successive search queries will allow user-preferred blogs and sites to propagate to the first few search results

SeeCodeRun: An Online Javascript Environment with the Developer in Mind   *June 2017 – August 2017*
- Added features to ongoing project that allow Javascript developers to see direct relationships between code and output
- Includes live preview with color coordination between a line of code and its corresponding output for easier debugging
- Won *IEEE Northern Virginia Chapter Award* at Regional Science Fair

Skills & Activities

- **Technical Skills:** Java, Responsive Web Design, GulpJS (Front-end workflow streamlining), Github, Python, JUnit Testing, iOS, Machine Learning (MATLAB), Inkscape (Vector Graphics)
- **Activities:** Singing (English & Hindi), dancing (urban freestyle/breakdancing), tennis, ping pong, badminton, weightlifting, card games & cardistry, biking
- **Languages:** English - fluent, Kannada - intermediate, Hindi - intermediate, French - beginner