

# AKSHAY KUMAR

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## Education

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**Georgetown University**, Washington, District of Columbia

BA Computer Science, September 2016 – May 2019 (expected)

GPA: 3.63, Major GPA: 4.0

Dean's List and Second Honors

*Relevant Coursework:* Data Structures, Algorithms, Discrete Mathematics, Linear Algebra, Multivariable Calculus

## Employment History

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**Teaching Assistant – Computer Science**, Georgetown University

*September 2018 – Present, Prof. Jeremy Bolton*

- Help students navigate coursework for COSC 051(CS I) and 052(CS II) by hosting office hours designed to improve problem solving and debugging skills through asking questions, as opposed to providing solutions.
- Foster growth by grading and providing feedback on student homework, projects, and other tasks, along with communicating problem areas with professors to improve in-class instruction.

**University Information Services**, Georgetown University

*Student Technology Consultant, September 2016 - Present*

- Process technology service requests by diagnosing and resolving hardware/software issues, along with diagnosing and resolving network, computing, and printing problems across Main and Law school campuses. Approximately 15 hours/week.
- Helped with setup of new Wi-Fi network GURegistered for connecting smart devices and game systems through exhaustive testing of dead zones, collecting customer feedback, and troubleshooting devices.

**Farm/Construction Work**, Kurukshetra, Haryana, India

*Summer Worker, May – July 2018*

- Used Microsoft Excel to create models for project ETA, accounting for expenses, time, etc.
- Facilitated construction of barn, roof, and bathrooms, by buying and transporting materials, laying bricks, mixing cement by hand, etc. Also responsible for picking crops, general cleanliness of premises, cooking, and chasing stray cows/bulls out of the fields.

**Colvin Run Elementary School**, Vienna, VA

*Intern, May 2016 - June 2016*

- Taught 3D modeling (Tinkercad), presented on math topics (golden ratio, fractals), and volunteered in art classroom for 6<sup>th</sup> grade students in an effort to inspire interest in STEM.
- Assisted students with disabilities in preparation for Standards of Learning exams through 1-on-1 tutoring.

## Projects

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**Map Alert** – Programmed functionality, integrated database, and UI design for Android application allowing users to create geographically based incident requests, enabling accelerated government response to problems within cities.

- Built in Android Studio, using Google Firebase Realtime Database (linked through Java API) for storage.

**Green Cover** – Integrated front and back end, designed UI, and routed calls to map APIs in application for locating green spaces in cities. Part of initiative to correlate green spaces in urban cities and socio-economic standards.

- OpenCV (python) for image processing, JavaScript for API calls and webpage functionality.

**Planner** – Led development and database integration in CRUD based application for creating a daily planner/agenda for different categories (courses, hobbies, personal, etc.) using a minimalist design to increase productivity.

- Built in JavaScript, using Google Firebase Realtime Database (linked through JavaScript API) for storage.

## Skills

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- Languages: C++ (advanced), Java (proficient), Python (intermediate), HTML/CSS/JavaScript (intermediate)
  - Other: Linux/Windows, Bash shell, Git, Subversion, Firebase Realtime Database, Vim
- Software: Adobe Photoshop, Adobe Illustrator, Autodesk Inventor

**Interests:** Meditation, Drawing, Microcontrollers