# EDUCATION ARYAN SINGH

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**University of Massachusetts, Amherst, MA** *September 2017 – Exp. May 2021*

*Bachelor of Computer Science and Mathematics*

* Cumulative GPA – 3.59
* Received Chancellor’s award for exceptional academic achievement (2017-2021)
* Awarded Dean’s List AY2017/18 and AY2016/17

**Delhi Public School, Faridabad, India** *May 2017*

*India Standard 12* – Science stream aggregate of 96.4%

* Received a Gold Medal for 7 years of academic excellence

# SKILLS

* **Relevant Courses:** NLP(Fall), Algorithms (Fall), React (Fall), Artificial Intelligence, Data structures, Python, Statistics I & II
* **Languages:**  Java, Python, Dart, JavaScript, C, HTML, CSS
* **Frameworks:** Android, Flutter, Ruby on Rails, React Native, Node, Express JS, Laravel
* **Databases:** Firebase, SQLite, NoSQL, SQL, MongoDB

# WORK EXPERIENCE

**Undergraduate Research Intern –** *BINDS lab, UMass Amherst Exp. August 2019*

* Research and collaborate with Professor Ed Reitman on predictive synapse modeling, using Neural Nets and Machine Learning

**Mobile and Web Development Intern –** *Arrow Electronics, Centennial, CO June 2019 – August 2019*

* Lead developer of an information and reporting app for a Fortune 109 company; used Flutter for development
* Leveraged web sockets, notifiers, networking, push notification, and database using architectural patterns like Bloc and providers
* Developed custom interactive charts, graphs and figures backed by Firebase and API payloads created in Node JS and Flask

**Mobile Application Developer (Ex-Intern)–** *Campus Access, UMass Amherst Jan 2019 – present*

* Collaborate with a team of 6 developers to create a cross-platform Accessible Wayfinding mobile application
* Develop features for the App using JavaScript, Typescript, React Native, Docker, RESTful APIs, ArcGIS, and Node JS

**Web Application Developer –** *Hack UMass Tech Team June 2019 – present*

* Make Hack UMass Dashboard open source using Ruby on Rails, with the project sponsored by GitHub
* Collaborate with a team of 10 developers and make the dashboard fully customizable for organizers and hackathon teams

# PROJECTS

**Elections for All –** *Decision Trees, AI, Python*

* Developed a decision tree in Python, using a dataset from Kaggle, to predict voting system in India
* Parameters include corruption level, age, speeches, media support, social media, background, wealth, gender, and education

**Med App –** *Android, Java, XML, Tensor Flow*

* Developed a medical based app for users to track and compare their weekly health using Android Studio
* Integrated a tensor flow model with Firebase Machine learning Kit to help users compare their daily activities with other people

**Ecommerce Dashboard –** *Flutter,**Dart*

* Developed a dynamic Ecommerce backend where you can add products and make it your next online store
* Leveraged Firebase Firestore as the Realtime Database; users can upload products to create an interactive frontend

**Easy Recipe –** *Flutter, Dart*

* Developed a recipe application where you can view, like, comment or share what other recipes are being made, in real time
* Writing a web scraper in Dart to parse different recipes from the web; users can directly add them to the database

**RoR projects –** *Ruby on Rails*

* Independently developed 4 projects in 2 weeks to learn Ruby on Rails: Carpool, To-do, Pinterest Clone, and Reddit Clone

# CO-CURRICULAR ACTIVITIES

* **Sports:** National Cricket Player – 2015, National Chess Player – 2010 (ranked 25th in the country)
* **Clubs:** Active member of ACM, Cyber Security, Investing, Chess, Badminton, and Cricket clubs at UMass Amherst