

Nikunj Agrawal

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Education and Honors

Grinnell College

Grinnell, IA

B.A. IN MATHEMATICS AND B.A. IN COMPUTER SCIENCE

Expected Dec. 2019

- Cumulative GPA: 3.85
- Math GPA: 4.00, Computer Science GPA: 4.00
- Honors: Dean's List (all completed semesters), Noyce/Intel grant recipient, Wilson Center grant recipient

Relevant Coursework and Technical Skills

Technologies Java, Python, Typescript, MATLAB, Angular, Node.js, Go, MySQL, Ruby on Rails, Android Studio, Git, LaTeX

Courses Data Structures, Algorithms, Graph Theory, Abstract Algebra, Neural Networks, Data Mining, Deep Learning

Work Experience

Google

Kirkland, WA

SOFTWARE ENGINEERING INTERN

May 2018 - Aug. 2018

- Iteratively developed a multi-cloud CRM in native Angular and Go, allowing users to easily trade cloud services
- Wrote unit and integration tests with Jasmine and followed Google's readability standards to ensure high project quality
- Authored a low-level software design document to report and resolve ambiguities in product design

KDIC Radio Station

Grinnell College

ANDROID DEVELOPER

Aug. 2016 - May 2018

- Developed a radio streaming application using Android Studio in collaboration with the Grinnell AppDev club
- Implemented APIs for synchronous and asynchronous data retrieval to build the 'Schedules' tab using OkHttp client
- Enhanced the UX and improved performance by redesigning Android UI controls of the application

Intex Technologies

New Delhi, India

SOFTWARE ENGINEERING INTERN

Jun. 2017 - Aug. 2017

- Researched the best UX by analyzing data with generated usage metrics to prepare an effective marketing strategy
- Conducted performance tracking and success metrics via unit testing on 360OS, KaiOS, AirOS, FuelOS for android
- Performed quality assurance tests using ADB drivers to debug applications and proposed improvements

Projects

Term Deposit Subscription Predictor

Sep. 2018 - Nov. 2018

- Built a deep learning model using keras library to predict if a client of a Portuguese bank will subscribe to a term deposit
- Investigated hyperparameters such as number of epochs, learning rate and batch size to train the best model

Adult Income Binary Classification

Sep. 2018 - Nov. 2018

- Implemented k-NN algorithm in python to predict whether income of an adult exceeds \$50k/year based on census data
- Utilized 5-fold cross validation technique to overcome high variance by averaging results over five partitions

Heartland Global Health Consortium

Jan. 2018 - May 2018

- Engineered a web application to help connect 12+ Iowa colleges to increase awareness about global public health
- Acted as a liaison between project team and client to translate client needs into achievable goals

Foodshare, hackGC

Apr. 2018 - May 2018

- Built a web application to connect students at Grinnell College to alleviate the problem of food insecurity
- Won second prize at a hackathon organized by Grinnell College

DxT, The Impact Fellowship

Dec. 2017 - Jan. 2018

- Designed a platform for developers to find pen-testers using a double-blind matching algorithm using React and Express
- One of the 35 chosen fellows from 500+ applicants for the Impact Fellowship program in New York

Funds Transfer Program

May 2017 - Jun. 2017

- Developed a banking application prototype using Java to allow users to manage their funds in multiple banks
- Enhanced the usability of the application by connecting to a MySQL database using JDBC drivers