Eshan Agarwal

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EDUCATION

Columbia University, School of Engineering and Applied Science 2015 — 2019
- Major: Computer Science
- Egleston Scholar (Top 1% of Engineering Applicants in Entering Class)
- Overall GPA: 3.88/4.0, Major GPA: 4.11/4.0

TECHNICAL SKILLS

Skills: Java, C, Javascript, PHP, SQL, HTML, CSS, AngularJS, Node, Objective-C, Unity, Play Framework, Mongo
Relevant Coursework: Data Structures in Java, Advanced Programming in C, Fundamentals of Computer Systems, Linear Algebra, Discrete Mathematics, Probability and Statistics

WORK EXPERIENCE

Facebook, *Software Engineering Intern; Menlo Park, CA* Summer 2017
- Accepted offer to work at Facebook for the summer of 2017

SmartAsset, *Software Development Intern; New York, NY* 5/16 — 8/16
- Initiated migration to service-oriented backend architecture using Netflix Eureka for service discovery, middle-tier load balancing, and fault protection
- Built tools for SEO optimization and partner outreach for business development team
- Created system of load tests for evaluating scalability of services and gathering performance metrics

Columbia Laboratory for Intelligent Imaging and Neural Computing 1/2016 — Present
Undergraduate Researcher; New York, NY
- Working with team of three to develop a real-time brain-computer interface system that operates in virtual reality
- Integrated open-source software solutions for synchronized streaming and real-time processing of several data outlets including EEG, Oculus, and eye-tracking data sources

MathPlus, LLC, *Head Teaching Assistant; Newark, DE* 8/2011 — 8/2015
- Aided up to eight students at a time in topics including simple to advanced algebra, geometry, trigonometry, and fundamental problem solving techniques
- Received offers from parents for private tutoring sessions based on positive reviews from students

Charter School of Wilmington HCI Lab, *Researcher; Wilmington, DE* 1/2012 — 10/2014
- Co-authored three publications on the use of adaptive and verbal technologies in the classroom and on gender-based perceptions of computer science among pre-collegiate students (Abstracts: *http://goo.gl/J6EUBz*)

PROJECTS

Bites, *Co-founder* 10/2015 — Present
- Developed a hybrid mobile app for college students to sell home-cooked meals to other students on college campuses as an alternative to dining hall food
- Won second place at Columbia's undergraduate fast-pitch competition and was selected as a finalist at the Columbia Venture Competition (seven selected out of more than eighty)

Class Projects 1/2016 — 5/2016
- Created a functional HTTP web server and additional database server from ground up in C
- Wrote a sorting program using only MIPS assembly code

Flip, *Personal Project* 5/2013 — 1/2014
- Designed and developed an iPhone studying application incorporating speech recognition and customized adaptive algorithms
- Experiments in real classroom environment showed improved long term retention of material when tested against traditional flashcards
- Published app research at the 2014 AACE World Conference on E-Learning