Varun **Jindal**

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Education

University of Michigan   *Ann Arbor, MI*

B.S.E. in Computer Science, Minor in Entrepreneurship   *2019 - 2023*

- GPA: 3.9
- Coursework: Data Structures and Algorithms, Microprocessors and Toys, Discrete Math, Linear Algebra

Projects

StudyBuddies   *E. Setauket, NY*

- Created https://umichstudybuddies.com, getting 7096 form responses in two weeks of people who entered their classes and study habits so that we could match them with 2 other study buddies in their class.
- Designed the site with Figma for collaborative design and developed with React.js for easily modular code.
- Implemented a matching algorithm in Python which processed over 7000 form responses and was able to match people by similarity.
- Managing a team of 5 so that we can roll out this product to 3 additional colleges.

Enlight   *E. Setauket, NY*

- Joined the co-founding team of https://enlight.nyc to make it into *the* place to learn to code by building projects
- Built a custom content management system with Gatsby.js and Firebase, reducing friction and increasing project submissions from 0 to 15
- Drove an over 15% increase in user base from 9,500 to over 11,300 developers since joining
- Launched a new product which created the first revenue for the company: Enlight cohorts
- Created custom dashboards for every member of cohorts which improved user retention by 15%

Autonomous Robotic Arm   *E. Setauket, NY*

- Engineered robotic arm on team of 3 that can pick up, flip, and deposit pennies accurately on a target.
- Utilized 5 Servos to make up the robotic arm with servo blocks to ensure structural stability.
- Implemented x-y coordinate grid system to deposit pennies and used Arduino and custom PCB as control system.
- Managed and developed entirety of Arduino C/C++ code base

Research

Research with the Garcia Program, Stony Brook University   *Stony Brook, NY*

Research Intern   *2018*

- Created novel thermoplastic, biodegradable and flame-retardant polymer blend as replacement for PLA (Poly-Lactic Acid).
- Expanded the applications of 3D printable material PLA by enhancing ductility and addressing lack of flame retardancy.

Research at CEWIT, Stony Brook University   *Stony Brook, NY*

Research Intern   *2017*

- Implemented multi-threading in Java to improve efficiency of Android Studio app that creates indoor maps with echolocation.
- Enhanced the speed of wall and door detection with multi-threading.
- Created a settings menu to change parameters for wall and door detection.

Extracurriculars

Shift Creator Space   *Ann Arbor, MI*

Creator   *2019 - Present*

- Communicate with group weekly, giving and receiving feedback about personal project goals; managed with scrum board.
- Attend workshops on software, design, and sketching.
- Creating a React Chrome Extension that presents people with weekly metrics to encourage social engagement.

FunKtion Hip Hop Dance Team   *Ann Arbor, MI*

Dancer   *2019 - Present*

- Dancer on only all-male hip-hop dance team that performs numerous times for over 400 people.
- Choreograph songs and assist in choosing songs for main performance.

Skills

React.Js, Gatsby.Js, JavaScript, Python, C++, HTML/CSS, Figma