Parag Bhatnagar

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EXPERIENCE

Web Developer **Mighty Bear Games, Singapore** **Nov 2022 - Present**

- **MightyNet App:** Developed the web platform for NFT transactions to & from the Web 3.0 Game Mighty Action Heroes using Next.js, TypeScript, AWS Cloud, Ethers & Wagmi, generating ~$1M in transaction volume.
- **UI Documentation & Testing:** Implemented Unit and E2E testing using Jest & Cypress, reducing regressions by 75% and created UI documentation using Storybook to reduce UI turnaround time from 1 week to 1-2 days.
- **Mod Tools:** Created a comprehensive tools suite for mods to securely view & edit user info, inventory & game state, reducing response time from 3-5 days to >24 hours.

Technical PM, Mobile Developer **Mighty Jaxx Intl Pte Ltd, Singapore** **Dec 2019 - Jun 2022**

- **NFT Roadmap:** Led the go-to-market strategy for NFTs, generating $250k from digital-to-physical NFT sales.
- **Mobile App:** Developed the mobile app in React Native, Redux & the Shopify web platform - Revamped UI for registration, product discovery, ownership, & VIP programme. As PM, improved mobile app user flow, leading to 40k installs (80x), 8k (10x) active users & $2M revenue in 2 years (30% of B2C revenue).
- **Blockchain authentication:** Built a scan-to-authenticate flow using NFC & Polygon chain used to verify authenticity of over 25k products & unlock further digital experiences.

Software Engineer **GorillaSpace, Singapore** **Apr 2019 - Nov 2019**

- **Web v2:** Single-handedly built v2 of the platform & admin dashboard front-end from scratch in 4 months using Next/Redux, TypeScript, improving load time by 75-100% on public pages & 200-300% on admin dashboard.
- **UI Improvements:** Revamped the site design with UI/UX team to improve responsiveness, increasing conversion by 40%. Documented components using Storybook for site-wide consistency & cross-collaboration.

Front-end Developer **Dinar Dirham, Malaysia** **Sep 2015 - Jul 2017**

- **Web/UI Design:** Designed the landing page, branding & UI for the website and crypto exchange platform.
- **Front-end:** Developed the platform in AngularJS, Node & Express serving 30k users with $100k volume.

PROJECTS

Instructor, DeltaSchools Coding Academy **Aug 2023**

- Teaching pre-university students Data Science using Python & Game Dev in JavaScript.
- Technical consultant for independent research & capstone projects.

Technical Consultant, Malay Heritage Center Urang Banjar Exhibition **Nov 2020**

- 3D-modeled & developed AR exhibits using Blender, AR.js & Spark AR for the National Heritage Board

Co-Author, ACM ToCHI 2020 Paper Publication **May 2020**

- Published Cognitive Psychology / Human-Computer Interaction paper on the effects of distraction on attention & cognition. Created distraction-resistant haptic patterns for wearable user interfaces.

Co-Author, ACM 2017 ISS Conference Publication **Oct 2017**

- Published paper on haptic feedback as a replacement stimulus for eyesight, allowing a user to drive a car blindfolded in a racing simulator. Project won 1st prize at NUS Hack & Roll 2017.

SKILLS

JavaScript | TypeScript | React | React Native | Next.js | Storybook | Redux | Node | Express | REST API | Git | AWS | Java (Spring Framework) | Jest | Unit Testing | OOP | English, Hindi, Bengali - Professional | Chinese - Elementary

EDUCATION

Yale-NUS College **B.S. Hons, Major in Maths & Computational Sciences (GPA 4.09)** **2017**
Coursework: Data Structures & Algorithms, Human-Computer Interaction, Computer Vision Operating Systems

Yale University **Visiting International Students Programme** **2016**
Coursework: 3D Fabrication Techniques, Software Development & Entrepreneurship, Digital Animation

PERSONAL INTERESTS

Improv theater, Stand-up comedy, Mental wellness & psychology, Science fiction, Languages, Linguistics