Hersh **Nagpal**
SOFTWARE ENGINEER

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Experience

Mobile Software Engineer
DRAFTKINGS
New York, NY
Aug 2022 – Jun 2023

- **Skills Utilized:** Swift, SwiftUI, Redux, Combine, Composable Architecture, Git, BitBucket, C#, Xamarin, .NET, Unit Testing, Figma, Scrum
- Implemented and delivered robust and well-tested features using SwiftUI, Composable MVVM architecture, and Redux state management
- Increased application performance through increased automated test coverage, optimization of inefficient algorithms, and refactoring of views
- Collaborated with cross-functional teams to quickly and efficiently deploy with pixel-perfect adherence to design and passage of all acceptance criteria
- Conducted unit testing, functional testing, and integration testing on each new feature, component, and API change
- Released Team Page, Player Page, Player Stats and News, and other critical features to both the SwiftUI iOS app and Xamarin multi-platform app

Full Stack Software Engineer
POSTERITY
New York, NY
Feb 2022 – Jun 2022

- **Skills Utilized:** React, TypeScript, NextJS, Styled Components, CSS, Golang, GitHub, Functional Testing, Figma, Storybook, Lean Startup Ideology
- Developed and released the MVP React progressive web application on a cross-functional and highly efficient team of four
- Owned and developed reusable component library, reducing build time compared to previous MVP while perfectly matching UI/UX specifications
- Ensured pixel-perfect component design and isolated component testing by implementing the Storybook open-source framework
- Contributed to end-to-end process of eliciting requirements, writing stories, tracking metrics, and shipping well-tested features
- Edited and proofread early-stage startup manifesto, business proposal, and investor presentation alongside CEO

Mobile Software Engineer Co-Op
PAYPAL
Boston, MA
Jun 2021 – Dec 2021

- **Skills Utilized:** Swift, UIKit, XCTest, Objective-C, API Testing, MVVM, Market Research, Competitive Analysis, Unit Testing
- Re-architected views and view models to use latest security tooling, vastly improving security of API calls and handling of sensitive financial data
- Shipped localized components, ensuring tailored conformance to design, security, and legal standards for each EU jurisdiction
- Collaborated remotely with worldwide iOS development team across time zones through concise Slack/email communication and weekly meetings
- Researched new markets, mapped competition, and developed product names for new product offerings with PayPal's Brand Architecture team
- Volunteered with The Network for Teaching Entrepreneurship to teach 6–12th grade students entrepreneurial skills and judge business ideas

Mobile Software Engineer Co-op
WAYFAIR
Boston, MA
Jan 2020 – Jun 2020

- **Skills Utilized:** Swift, UIKit, Autolayout, CocoaPods, XCTest, Jira, VIPER, GitHub, GraphQL, Scrum, UI Design, Unit Testing
- Shipped pages and product image carousels using Swift UIKit and VIPER Architecture such as the "Product Details" page, "Related Product" carousels
- Refactored and tested high-traffic view models to reduce load times on "Related Items", "Frequently Bought Together", and "Additional Information" pages
- Implemented and rigorously tested multitasking split-view capability on large iOS devices alongside QA teams
- Gathered user requirements, and wrote clear user stories, outlined testable acceptance criteria, and scoped Jira tickets according to Scrum best practices
- capability on large iOS devices alongside QA teams Volunteered to host charity events on behalf of Wayfair to raise funds for St. Jude's Children's Hospital

Software Engineer Intern
BROADRIDGE FINANCIAL SOLUTIONS
Deer Park, NY
Jun 2019 – Aug 2019

- **Skills Utilized:** DevOps, AWS (CloudFormation, S3, IAM, EC2), Javascript, UI Design, Jenkins, Marketing, Public Speaking
- Designed an automated, cloud-based DevOps architecture to decrease the spin-up time of Broadridge Digital B2B products
- Optimized AWS microservice suite to reduce costs by 90% compared to the current on-premise solution
- Led a multi-disciplinary team to research investment trends and create marketing strategy to increase engagement in paperless investor resources

Skills

Mobile Development	**Swift** (SwiftUI, Redux, UIKit, Combine, CocoaPods, XCTest), **C#** (Xamarin, .NET, Xamarin Forms, Objective-C, Kotlin)
Web Development	**TypeScript, JavaScript** (React, Redux, Node), **CSS** (SCSS, Styled-Components) **HTML**, **JSX**, React Forms, React Router
Process and Product	Scrum, Agile, Software Testing (Unit Tests, Integration Tests, Regression Tests, User Acceptance), Kanban, Lean
Other Software	Java, Python, AWS, Git (Github, BitBucket), Postman, Figma, GraphQL, Jira, Office Suite, Google Workspace, Firebase

Projects

Egyptian Rat-Screw	An iOS version of my favorite card game, released to the App Store worldwide and written in Swift using SwiftUI and Combine
Carrot Wolf	A Rogue-like game written in functional JavaScript using Redux for state management and Storybook for UI Testing
Hershnagpal.com	My personal website written in functional TypeScript with Styled Components and Storybook, using AWS Amplify for CI/CD
WayMovies	An iOS app that allows browsing, searching, and saving movies through TMDB API, written in Swift using UIKit and Autolayout
Web Checkers	An online checkers site where you can play against your friends or an AI player. Made using Java, Freemarker, and Spark

Education

Rochester Institute of Technology
Rochester, NY

B.S. IN SOFTWARE ENGINEERING, MINORS IN COMMUNICATION AND PSYCHOLOGY

- Relevant Coursework: Foundations of Artificial Intelligence, Software Testing, Analysis of Algorithms, Small Group and Interpersonal Communication