

Jal Irani

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📍 Baltimore, MD

EDUCATION

University of Maryland, Baltimore County

Ph.D. Information Systems

Aug. 2021 – Current

Catonsville, MD

- **Research:** Swarm Learning (Federated Learning using Blockchain)
- Note: On Leave of Absence until Sep. 2025

Johns Hopkins University

M.S. Computer Science

May 2017

Baltimore, MD

Towson University

B.S. Computer Science

May 2015

Towson, MD

- **Mary Hudson Scarborough Award:** Top graduating Computer Science student

SKILLS

Languages (*In order of most proficient*): Swift 5+, JavaScript (ES6+), Python, Solidity, Rust

Libraries/Tools:

- **Blockchain:** IPFS, Alchemy, Candy Machine (Solana)
- **AI/ML:** NumPy, NLTK, scikit-learn
- **iOS:** SwiftUI, UIKit, Realm
- **Web:** React.js & Node.js

EXPERIENCE

Flave

Founder & CEO

Jan. 2021 – Present

Baltimore, MD

- Rewarding diners for eating local.
- Press: [Technical.ly](#), [Top 20 Startup of 2022](#), [WBAL](#), [BBJ](#)

clean.io (Acquired: Human)

Senior Product Manager

Jan. 2020 – Dec. 2020

Baltimore, MD

- Led product efforts in creating the clean.io SDK which resulted in a \$250K+ revenue increase.

CountySportsZone

Chief Technology Officer

Nov. 2018 – Jan. 2020

Baltimore, MD

- Led engineering and product teams in development, growth, and expansion from ideation to \$125K in ARR.
- Successfully secured \$1M in seed round funding within first year of incorporation.

TrackOFF (Acquired: Avast)

Senior iOS Engineer

Dec. 2017 – Nov. 2018

Baltimore, MD

- Developed the TrackOFF Privacy browser, currently listed as Avast Secure Browser, and Dark Web Search apps. Both applications were built using Swift and UIKit and have over 500K+ downloads in the iOS App Store.

ZeroFox (Nasdaq: ZFOX)

Software Engineer

Aug. 2015 – Nov. 2017

Baltimore, MD

- Created asynchronous JavaScript rules for 20+ Fortune 500 companies to alert the ZeroFox platform on threatening/suspicious activity on social media platforms.
- Taught a 2 day introduction to JavaScript and API usage for select customers.

Primary Data

Jun. 2015 – Aug. 2015

Software Engineer Intern

Los Altos, CA

- Developed a proprietary iOS application to visually define memory management options for a software-defined storage system. The resulting application was presented at VMworld 2015 in SF, California.

Textron Systems

Jun. 2014 – Aug. 2014

Software Engineer Intern

Hunt Valley, MD

- Modified testing tools to simulate the embedded C++ airborne software system to support 50 payload configurations.

Vane Brothers

Jun. 2013 – Aug. 2013

Software Engineer Intern

Baltimore, MD

- Wrote a proprietary C# application that tracks the location, speed, direction, weather, fuel, payload, and crew information for the entire 120 vessel fleet.

ACADEMIA

Towson University

Aug. 2017 – Present

Lecturer (Computer & Information Systems)

Towson, MD

- Primary full-time lecturer for the senior and graduate-level blockchain & mobile development courses in the CS department.
- **Entrepreneurship Faculty Fellow:** Fall 2022 – Present
- **Courses:** COSC 670, 617, 484, 435, 431 & AIT 616, 618

Johns Hopkins University

Aug. 2019 – Present

Adjunct Professor (Carey Business School & Whiting School of Engineering)

Baltimore, MD

- Teaching blockchain and introduction to machine learning in the Carey Business School as well as generative AI for entrepreneurs in the Whiting School of Engineering graduate programs.
- **Courses:** BU 520.710, 232.770 & EN 635.674

Loyola University Maryland

Jan. 2023 – Dec. 2023

Adjunct Professor (Computer Science)

Baltimore, MD

- Taught mobile development and blockchain to senior CS students.
- **Courses:** CS 453 & 489

PROJECTS

Towson University

- Description: An iPadOS application responsible for signing in over 500 unique individuals per week into their co-working space.
- Technology: SwiftUI, Firebase

Fourplay

- Description: NY-based double dating app. Single Friends. Double Dates.
- Technology: SwiftUI, Swift Server, Realm
- Accolades: 100K+ downloads and raised over \$1M to date
- Press: [NYPost](#), [CNBC](#)

SleepIn Alarm

- Description: Alarm clock that automatically turns off your scheduled alarm if school is canceled.
- Technology: Swift, UIKit, SwiftSoup
- Accolades: 5K+ downloads in first week of launch
- Press: [WBAL](#), [WYFF](#), [Diamondback](#), [Watchdog](#), [Towerlight](#)

Corrie

- Description: Promote guideline-directed cardiovascular care in a cost-effective way with evidenced-based health technology.
- Technology: Swift, UIKit, CareKit
- Accolades: Featured in WWDC 2021
- Press: [WWDC 2021](#), [JHMI](#)

SmartAddress

- Description: Address book that compares Uber & Lyft rates.
- Technology: Swift & UIKit
- **Acquired:** FamJam Inc. (2018)

AWARDS

Towson University Outstanding Lecturer Award: 2024

Top 21 Most Influential Engineers in Baltimore: 2021

USM COVID App Challenge Winner: 2020

NOTABLE GRANTS

National Security Agency (NSA) GenCyber (amount: \$2,000,000): 2023

Maryland Business Innovation Association (MBIA) Grant (amount: \$10,000): 2022

TEDCO RUBRIC Grant (amount: \$100,000): 2021

MENTORSHIP

Towson University StarTUp (Accelerator Mentor): 2021 – Present

TapIn (Advisor): 2023 – Present

Loyola University Maryland Computer Science Department (Industry Advisory Board): 2024 – Present

University of Maryland Robert H. Smith School of Business (Blockchain Accelerator Mentor): 2024 – Present