

Rohan Shaiva

SOFTWARE ENGINEER

Pursuing a degree in both **Computer Science** and **Film** has equipped me with an interdisciplinary mindset that allows me to blend creative insight with critical thinking.

CONTACT



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[-rohan-shaiva-](#)



[rohan-shaiva.web.app](#)

SKILLS

PROGRAMMING:

Languages

C, C++, Swift, Objective-C,
JavaScript, HTML/CSS,
Python, Java, Python,
Scheme, SML, Ruby, C#, R

Libraries / Frameworks

React, node.js, d3.js,
CocoaPods, Flutter

Tools / Apps

Heroku, GitHub, Unity,
Tableau, Slack

Technical

GUI/UI/UX Design, Dynamic
Semantics, Lambda
Calculus, Data Science,
Algorithms, A/B Testing

FILM AND MEDIA:



RELEVANT COURSEWORK

Data Structures, Algorithms,
Programming Languages,
Computation Theory, Web
Programming, Discrete
Mathematics, Visual Analytics,
Computer Security, Object
Oriented Programming for
GUIs in Java, Game Design,
Machine Level & Assembly-
Language Programming

EXPERIENCE

iOS Engineering Intern at The New York Times

SUMMER 2020 (JUNE - AUGUST)

Joined the New York Times Games Team for ten weeks, primarily contributing to the New York Times Crossword iOS app

- **Upgraded code** from *Objective-C* to *Swift* in the Crossword iOS app
- **Wrote exhaustive UI tests** while pairing with senior engineers on the team
- **Brainstormed a smoother new-user experience** with a product designer to help gain new Crossword subscribers through the iOS app
- **Implemented a new section of the app** in *Swift* to teach the crossword to unsubscribed users, using asynchronous, chained animations and an interactive UI to create a visually engaging experience
- **Ideated, play-tested, and designed a new game prototype** with the other interns on the team and **implemented the iOS version** in *Swift*
- **Co-wrote an NYT Open article** about the new game which is [now published](#)

Full-Stack Software Engineering Intern at startup FitTribe

SUMMER 2019 (MAY - AUGUST)

Co-developed an app in Swift from the ground up that allows users to challenge friends in monthly competitions to eat healthy

- **Employed agile software development** practices
- **Explored *bite.ai*'s machine learning algorithms** which allows for meals to be recognized and analyzed from a photo upload
- **Integrated signing in with Facebook** using the *CocoaPods* framework
- **Implemented a custom image picker** and **dynamic alert views** usable throughout the app by upgrading default iOS controllers

PROJECTS

Seize the Seas - A Fast-Paced Multiplayer Game

SPRING 2019 (MARCH - MAY)

Created a first-person, 3D environmental awareness game where players defend their island while racing to collect trash floating in the sea

- **Coded in Unity** using *C#* scripts and playable with X-Box controllers
- **Implemented a custom physics engine** for underwater gameplay
- **Created sound effects** in *Logic Pro X* and **3D models** in *Autodesk Maya*
[Mac Download](#) • [Windows Download](#)

Tara - A Sci-Fi Horror Short Film

WINTER/SPRING 2018 (JANUARY - JULY)

View Film: <https://youtu.be/PZqqbtbDxts>

- **Served as Director of Photography, Composer, Editor, Sound Designer, Colorist, and Special Effects Artist**

EDUCATION

TUFTS UNIVERSITY - Class of 2021

B.S. in Computer Science

B.A. in Film and Media Studies (with a focus in Film Production)

GPA: 3.63