NOOK HARQUAIL

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EXPERIENCE

STAFF SOFTWARE ENGINEER I, ETSY   **Oct. 2021 — Present**
SENIOR SOFTWARE ENGINEER II, ETSY   **Sep. 2019 — Oct. 2021**
Backend development for the Buy on Etsy apps (PHP). Worked across multiple teams to lead high-priority projects. Mentored other engineers, and defined architecture and best practices for teams. Proposed and implemented large engineering-driven projects, including re-architecture of the cart. Managed technical and organizational change as the company scaled 2x during the pandemic.

STAFF SOFTWARE ENGINEER, YIELDMO   **Apr. 2016 — Aug. 2019**
Interactive mobile ads that reach >70% of smartphone users. I focused on code quality, repeatable process, and mentoring junior developers. Transitioned our core codebases from JavaScript to TypeScript. Interim manager for 6 engineers while we replaced the engineering director.

MAKER, VIACOM LAB   **Sep. 2015 — Jan. 2016**
iOS development and human-centered design in an experimental team at Viacom. Prototyped concepts that inspired future products (apps and VR experiences).

SKILLS

WEB
PHP, JavaScript, Node, TypeScript, HTML5

iOS
Swift, Objective C, SpriteKit, SceneKit

OTHER DEV
SQL, AWS, GCP

SOFT
Agile, Scrum, Design Thinking, Mentorship, Software Architecture

EDUCATION

DARTMOUTH COLLEGE
M.S. Computer Science and Digital Arts
Full-tuition merit scholarship

DARTMOUTH COLLEGE
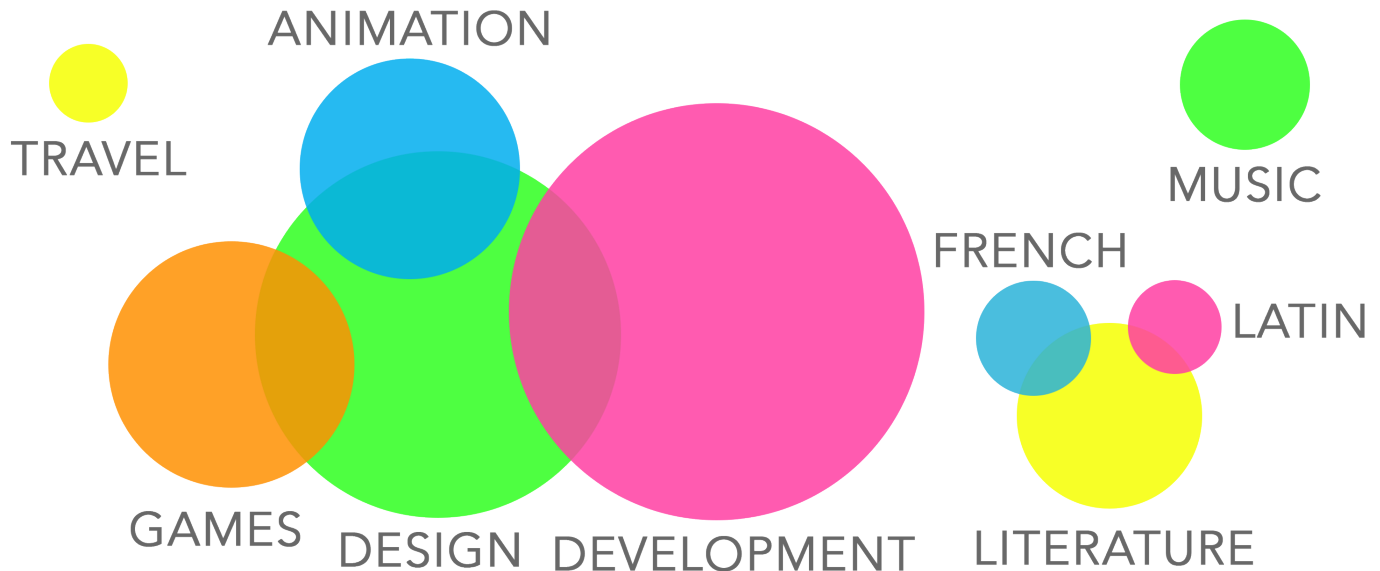B.A. Computer Science   GPA: 3.68/4.0 Cum Laude

PORTFOLIO AT WWW.HARQUAIL.COM

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INTERESTS

TRAVEL

ANIMATION

MUSIC

FRENCH

LATIN

GAMES   DESIGN   DEVELOPMENT   LITERATURE

PROJECTS

ETSY CART MODERNIZATION   BACKEND WEB
I led a rearchitecture project for Etsy's cart screen. Over 9 months, we made it easier to run experiments in the cart and increased perfomance. This project had over $50mm in annual revenue impact.

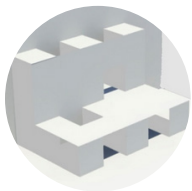### ETSY APP ARCHITECTURE ADVISORS   LEADERSHIP
At Etsy I helped establish the App Architecture Advisors group (AAA). The AAA is a rotating panel that helps shepherd engineers through Etsy's internal RFC process.

YIELDMO KINESIS EVENTS   DATA PIPELINE
I led the rearchitecture of Yieldmo's events pipeline on Amazon Web Services. We use a combination of Kinesis, Lambda, and Snowflake to ingest 5B+ events/day. The system takes around a minute end to end, and reduced costs by a factor of 10.

FOLDLINGS   iOS APP
A tool for creating and simulating 90-degree pop-up books with arbitrary shapes. iOS development in Swift using SceneKit. Created with Marissa Allen and Tim Tregubov.