

EXPERIENCE

Massachusetts Institute of Technology (Feng Laboratory), Graduate researcher

Sept 2015 - Feb 2023

- Earned over \$1M in funding for lab by initiating and leading two novel research projects
- Secured faculty support with data-driven presentations and created new beachheads, spawning additional lab projects
- Hired and led team with 4 reports; set project and individual goals, provided career development advice
- Promoted lab research by publishing findings in peer-reviewed journal and interviewed for news article
- Analyzed behavioral data of experiment groups to overturn 30-year-old direction behind failed drug trials
- Taught 3 sessions of 20-25 students as assistant for Introductory Biology and Cellular Neurobiology at MIT

Torte, Founder and CEO [[view on Github](#)] [[see the UX](#)]

Jan 2019 - Jul 2022

- Launched point-of-sale software startup; handled all research, design, programming, and marketing
- Released two mobile applications on iOS, Android, and web: a mobile ordering and payment platform for restaurant customers and a connected point-of-sale system for restaurants
- Recruited four restaurants for beta test, processed \$8,000 in sales
- Increased app usage 2.2X by acting as server, incorporated feedback to build faster authentication flow
- Enabled 100% restaurant capacity when understaffed by lowering time spent handling credit cards to 0%
- Enriched restaurant data points with item-level bill splitting, leading owners to introduce new appetizers
- Improved customer satisfaction scores, lowered server time at table 33% with new mobile ordering features
- Filed for trademark and patent intellectual property protection, established novelty through market analysis
- Acquired over 100 users for alpha product with zero marketing (free scan-and-split)

PROJECTS

vexillologycontests.com (monthly competitions for user-generated flags) [[view on Github](#)]

May 2023 - Present

- Coordinated moderator team to initiate new user engagement strategy and standardize documentation
- Reduced loading time from 680 ms to <80 ms for flags by converting from separate page to pop-up modal
- Increased voting speed by implementing vote-by-key with 20% adoption in first contest
- Established development environment for team with testing data and environmental variables

Datome.ai (a crowdsourced dataset to power AI in biotechnology - spun out from class project)

Sept 2022 - May 2023

- Partnered with Link Ventures (venture capital firm) after winning award with 3-minute pitch competition
- Worked with industry-leading scientists and managers to identify needs in AI annotation

TECHNICAL SKILLS

- **Programming skills:** Javascript, Python, React Native, React, NoSQL, SQL, React Navigation, Redux
- **Software tools:** Git, Google Cloud (Firestore, Functions, Storage, Authentication, Hosting)
- **Design platforms:** Figma, Illustrator, Photoshop

EDUCATION

PhD from the Massachusetts Institute of Technology

Graduated Feb 2023 in Biology (research focus: neurobiology)

MSE from the University of Michigan

Graduated 2013 in Biomedical Engineering (concentration: biotechnology)

BS with Honors from the University of Michigan

Graduated 2012 in Cellular and Molecular Biology