

JACOB CACCAMO

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Education

Tufts University, Medford, MA

BS in Engineering Psychology, Special Interest in Computer Science

GPA: 3.96 (4.00 in major) *Summa Cum Laude* De Florez Prize in Human Engineering Recipient (2017)

Relevant Coursework: Computer Interface Design, Human Factors Product Design, Human-Machine System Design, Human Computer Interaction, Computer Aided Design, Data Structures (C++), Web Programming, Game Development, Discrete Mathematics, Ergonomics, Experimental Psychology, Behavioral Statistics

Skills/Tools

Sketch, Adobe Illustrator, Adobe Photoshop, Balsamiq, Axure, React, HTML, CSS, JavaScript, D3, jQuery, Drupal Theming, Pattern Lab, Twig, C++, Python, Node.js, Git, Unity, MATLAB, 3DSMax, AutoCad, Inventor, Revit, 508 Compliance Testing

Experience

July, 2017 – Present

Booz Allen Hamilton, Washington, DC

UI/UX Designer – Senior Consultant (Full-time)

National Institute of Allergy & Infectious Diseases (NIAID, NIH)

- Developed the visual theme of an end-to-end intranet redesign and migration (SharePoint to Drupal 8) to achieve the following measurable outcomes:
 - Increase findability of intranet content.
 - Improve task completion rates.
 - Minimize cognitive load on users.
 - Increase utilization of the intranet as a resource for all employees.
- Led creative discussions with stakeholders throughout the organization:
 - Gained key insights for creating a style with universal appeal.
 - Facilitated discussions at all levels about how the intranet can be a better employee resource.
 - Transformed discussions into concrete requirements that informed the visual strategy for the project.
- Created the Pattern Lab instance for Drupal 8, using HTML, CSS, JavaScript, and Twig, that serves as the creative guide and design platform to reduce front-end development time.
- Built a master prototype that will guide the Drupal development team in creating UX-verified layouts.
- Designed and facilitated an Eye Tracking study to evaluate and enhance the visual design of the intranet and public website.
- Designed style tiles for a broader initiative to unify and augment the visual style of NIAID web properties across the organization.
- Facilitated a Design Sprint with key stakeholders to assess and improve the overall digital experience of NIAID employees.

Innovation Center – Internal Website (Enterprise-Wide Web App) Redesign

- Conducted multiple brainstorming sessions with site stakeholders to create the design and development roadmap for a four-stage deployment process.
- Gained project plan approval from directorate leadership for the web app, accessible to 25K+ employees.
- Produced speculative wireframes and high-fidelity mockups to more effectively display content and improve user comprehension/satisfaction.
- Managed the UI development and directed interaction choices to increase site user experience.
- Led two developers toward completing Phase 1 of the site remodel effort.

2016 – 2017

Red Hat, Inc., Tufts University

Tufts Team Lead & Designer (Senior Capstone Project)

- Led the design team of the Ansible Galaxy redesign, a web-based IT automation sharing platform.
- Conducted human factors research to characterize users and identify areas of UX improvement.
- Employed design principles and methods to develop an improved UI.

2016 – 2017

Center for Applied Brain & Cognitive Sciences, Tufts University

Human Factors/Engineering Psychology Researcher (Full-time summer/paid, course credit)

- Explored an extension of the adjustable autonomy concept working with quadrotor drones.

- Led research and development for an operator monitoring scheme to assess user cognitive state.
- Designed the experimental protocol for testing the adjustable autonomy concept.
- Researched a variety of physiological indices for potential operator monitoring input modalities.
- Coded a Unity simulation of the autonomy experiment and tested participants for data collection/analysis.

Summer 2015

Resilinc, Inc., Milpitas, CA

UI/UX Intern (*Full-time summer/paid intern*)

Resilinc is a leading cloud provider of global supply chain risk intelligence and analytics.

- Developed initial mobile app prototype for a real-time supply chain event monitoring service.
- Designed an application dashboard to optimize contact interaction and task management.
- Coded a program utilizing dashboard data to determine the most frequently used app modules.
- Assisted in determining the style and theme for a new website and designed key branding elements.
- Created the website (theresiliencycouncil.org) using WordPress, HTML, and CSS.

Summer 2014

Audience, Inc., Mountain View, CA

Engineering/Algorithm Intern (*Full-time summer/paid intern*)

Audience is a leader in advanced voice and audio processing technologies for mobile devices.

- Collected, categorized, and documented field data for a machine learning project.
- Performed research for a new work management process leveraging Amazon Mechanical Turk.
- Created a detailed manual describing the process for hosting audio files on Mechanical Turk.
- Prepared an informational presentation for internal education/training purposes.