Jake Caccamo

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Objective	To acquire an engineering psychology (human factors) position in product management, product research & development, user interface design, or user experience.

Education

Tufts University, Medford, MA
Degree Expected: BS in Engineering Psychology, Special Interest in Computer Science
Graduation: May, 2017
GPA: Overall – 3.95, Major – 4.00
Relevant Coursework: Behavioral Statistics, Computing in Engineering, Computer Interface, Design, Data Structures (C++ programming), Web Programming, Human Factors, General Psychology, Experimental Psychology, Engineering Psychology, Game Development, Discrete Mathematics, Advanced Engineering Psychology, Computer Aided Design, Human Factors Product Design, Ergonomics, Industrial & Organizational Psychology, Human-Machine System Design

Skills/Tools

UI/UX Design, MATLAB, C++, Python, 3DSMax, AutoCad, Inventor, Revit, Adobe Audition, HTML, CSS, JavaScript, jQuery, VBA, Google SketchUp, Serif DrawPlus X8, Unity, Git, Wordpress, Word, Excel, PowerPoint, Node.js, Amazon Mechanical Turk, Arduino, Empatica E4, SMI ETG 2

Experience
Summer 2016

Center for Applied Brain and Cognitive Sciences, Tufts University
Human Factors/Engineering Psychology Researcher (Full-time summer/paid intern)
- Explored an extension of the concept of adjustable autonomy, working with Yuneec Typhoon quadrotor drones.
- Led research and development for an operator monitoring scheme to assess cognitive state for input into the autonomy algorithm.
- Designed the experimental protocol for testing the adjustable autonomy concept.
- Researched and analyzed a variety of physiological indices, including skin conductance, heart rate, temperature, accelerometer, blood volume pulse, and inter-beat interval to infer the cognitive state of the operator.
- Worked with a variety of operator monitoring systems and hardware including eye-tracking glasses, a physiological wristband, a PixyCam, and an inertial measurement unit (IMU).

2015-2016

Loki Network, Mountain View, CA
Co-founder
Loki is a location-based social networking app on Apple's iOS platform that aims to bring friends together through location-based comments and events.
- Led UI/UX design and web development.
- Contributed to all aspects of business planning and go-to-market strategy execution.

Summer 2015

Resilinc, Inc., Milpitas, CA
UI/UX Intern (Full-time summer/paid intern)
Resilinc is a leading cloud provider of global supply chain intelligence and analytics.
- Developed initial mobile app prototype for a real-time supply chain event monitoring and alert service, including app structure, user experience (UX) flow, user interface (UI), and related design/branding assets.
- Managed project to create a new website for theresiliencycouncil.org, a non-profit organization founded by Resilinc, using WordPress, HTML, and CSS. Assisted in determining the style and theme of the website and designed key branding elements, including the organization's new logo, templates, and style guide.

- Designed an application dashboard to optimize contact interaction and task management for Resilinc's primary supply chain risk management product.
- Coded a program to generate analytics on dashboard data to determine the most frequently used charts and graphs.

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.

- Executed a variety of data management activities, including field data collection, categorization, and documentation of motion and sound data for a machine learning project.
- Performed research and laid the groundwork for a new work management (outsourcing) process leveraging the Amazon Mechanical Turk online marketplace.
- Created a detailed manual describing the process for hosting audio HITs (Human Intelligence Tests) on Mechanical Turk.
- Prepared an informational presentation for internal education/training purposes.
- Assisted in a variety of engineering, product testing, and quality tasks.
- Calibrated decibel levels in order to optimize audio clips.
- Updated manuals to include new auto-cuing and batching functionality using Cool Edit (now Adobe Audition).

Other

- Serve as Treasurer of the Tufts Human Factors and Ergonomics Society (2015-Present).
- Completed a volunteer internship at New York City headquarters of Up2Us, a national non-profit which connects local sports programs serving at-risk children with services and equipment (Summer 2012).
- Served as sports program leader and school teacher for a volunteer service mission organized by the Yale Alumni Service Corps in Ghana, Africa. Helped plan, organize, and run an afternoon soccer camp for 250 children ages 5-15. Taught daily science/architecture classes at village secondary school (Summer 2012).
- Participated in the TechTurn internship, a paid summer program in which participants rotated between three Silicon Valley startup/early stage companies and performed a variety of support tasks in QA, product testing, marketing research, and data collection and analysis, and presented findings to management teams. Participating companies included a pioneering provider of mobile voice technology (Audience, Inc.), a leading cloud-based enterprise software company (Instantis, Inc.), and an assisted/senior living web service (Caring.com). (Summer 2011).
- Served as leader, counselor, and founding member of Kick, Lead & Dream, an innovative summer program bringing soccer and life skills to over 300 at-risk youth (2008 – 2013).
- Created a support website (www.myocdsucks.com) for people coping with Obsessive Compulsive Disorder, which served as both a forum and an informational tool.

References   Available upon request