

John L. “Jake” Armstrong IV

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EDUCATION

PhD Student in Human-Centered Computing

Clemson University · Present

Bachelors of Art in Communication

Minor in Brand Communication · Clemson University · 2019 · 3.7 GPA

EXPERIENCE

Research Assistant

Human-Centered Computing · Clemson University · August 2019–Present

- Conducted an exploratory study on the democratization of technology through the lens of indie game developers and live streamers.
- Collected, organized, and analyzed organic data from social media sites and online communities.
- Recruited participants and conducted 28 hour-long interviews. Transcribed, organized, and analyzed data.
- Contributed to a paper submission at the competitive CSCW Conference (Computer Supported Cooperative Work and Social Computing).

Programming Bootcamp Lead Instructor

TRACE Camp · Clemson University · July 2019–Present

- Developed programming bootcamp curriculums to teach full stack development to students with live coding, lectures, example projects, assignments, and other resources.
- Taught students how to understand, write, and debug their code in an introduction to web development.
- The programming bootcamps received high marks on learning, enjoyableness, and helpfulness from students.
- The summer camp taught Python, Django, and React.js for three weeks. The winter camp taught Node.js, GraphQL, and React.js for one week. Each week in the bootcamps lasted Monday–Saturday from 9am–5pm.

Research Lab Contributor

TRACE Research Group · Clemson University · August 2018–Present

- Designed user interfaces for single page web applications for research studies.
- Developed front-end applications in React.js and coded the server with django or express.
- Collected and analyzed data for team research projects.

SKILLS

WEB DEVELOPMENT

- **HTML**, Semantic markup, accessibility, Google AMP, and SEO optimization.
- **CSS**, Styled websites with frameworks like Bootstrap and custom CSS layouts with Flexbox and Grid.
- **JavaScript**, In-depth knowledge of browser and server environments with functional and object-oriented paradigms.
- **Databases**, Experience in creating and managing NoSQL (MongoDB) and SQL (PostgreSQL, SQL, SQLite) databases using ORMs and developing APIs to communicate to them.

WEB DESIGN

- **Adobe Creative Cloud**, Experience in Adobe XD, InDesign, Illustrator, Photoshop, and Lightroom. Familiarity with Premiere Pro, After Effects, and Acrobat.
- **High Fidelity Mockups**, Sketch App, Adobe XD, Figma.
- **Design Process**, User research, wire framing, mockups, prototypes, and developer handoff.