

Kartik Chaturvedi

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Technical Expertise

Languages: Javascript, Python, Swift, Java, C++, PL/SQL

Databases: MongoDB, PostgreSQL, Oracle

Tools / Frameworks: Git, Node.js, React, GulpJS, Pug, Bootstrap, Material Design, Firebase, Heroku, Xcode, Android Studio, React Native, OAuth, Redux, REST APIs, Agile Development

Work Experience

Tech Administrator at Jain Lab, University of Florida (April 2015 - **Current**) — jainlab.cise.ufl.edu

- In-charge of UI design, server and content management, and SEO for lab website
- Built a powerful template system from scratch for the website with standalone components using Pug
- Publish research material, datasets, and toolboxes for scholar community
- Maintenance of lab hardware and software
- Collaborate with lab staff to archive studies, ensure consistency and integrity

Research Assistant at Jain Lab, University of Florida (January 2017 - **Current**) — jainlab.cise.ufl.edu

- Working with Dr. Eakta Jain and graduate students on a Human Interaction project to determine the behavior and movement of the human eye when interacting with webpages with multimedia content
- Build scripts using Python and Matlab to collect stable and accurate data during experiments

Webmaster at University of Florida Rocket Team (September 2016 - **Current**) — ufrocketteam.com

- Build and maintain team's website in the *NASA Student Launch competition* using Pug and GulpJS
- Publish project updates by deadline, to be viewed by NASA judges
- Create engaging content and sleek interface using Material Design concepts

Webmaster at FOCUS Lab, University of Florida (March 2015 - **Current**) — focus.ece.ufl.edu

- Built a Wordpress website with SEO and efficient content management for Dr. Sanjeev Koppal's lab
- Publish news updates and latest projects for lab's graduate research students
- Release new publications and related multimedia to the scholar community and the public

Research Assistant at UF Department of Psychology (August 2013 - May 2014)

- Conducted sociometric research under Dr. Ben Crosier to analyze physical human social networks
 - Set up and led lab studies, archived study data, programmed equipment and ran simulations
 - Led the group in observing depth of human-to-human interactions while using Google Glass
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Projects

Flashcard Study App in iOS, in partial fulfillment of a course — github.com/kchaturvedi/flashcard-study

Designed and developed an iOS application to aid students in studying course material. Backend was built using the Parse Cloud, using Facebook OAuth for authentication. Users had the ability to create their own flashcard decks for any course which other users could view and contribute to. The app included a Study Mode which displayed flashcards for review and a timed Quiz Mode for students to compete to get the highest score.

To-Do Webapp in Node.js and React — github.com/kchaturvedi/ReactTodo | ikartik.com/todoApp (deployed)

Wrote a webapp using Node.js and React framework with Github OAuth for authentication, Firebase for data storage backend, and Heroku for deployment. Users can add and search for to-dos, mark them completed, and view their to-do history from any device.

More projects listed at ikartik.com/#projects

Education

Bachelor's in Computer Science — University of Florida (August 2013 - August 2017)

Relevant Coursework – Mobile Computing, Operating Systems, Computer Networks, Databases and Information Systems, Computer Organization, and Software Engineering

Interdisciplinary Courses – Engineering Ethics, Legal Environment of Business, Principles of Marketing, Macroeconomics, Microeconomics, Spanish