

Kevin DeLand

Full Stack Developer / Learning Engineer

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Education

Carnegie Mellon University Pittsburgh, PA	School of Computer Science, HCII Masters in Educational Technology and Applied Learning Science	2016-Present
Duke University Durham, NC	School of Engineering Bachelor of Science in Electrical and Computer Engineering	2008-2012

Experience

Development Lead Renaissance Learning 2017-Present	<ul style="list-style-type: none">Conducted interviews and contextual inquiries with 20 educators while practicing user-centered research methods to synthesize and analyze teacher needs.Leading development of team-designed, research-based solution to address goal-setting and progress monitoring needs of teachers, administrators, and interventionists.
Software Engineer IBM 2012-2016	<ul style="list-style-type: none">Architected and implemented various web applications to support Bluemix onboarding process by streamlining registration of users and creation of organizations.Integrated many internal IBM APIs including user lookup and email sending, with cloud-based NoSQL databases such as Cloudant and MongoDB.Secured applications with various authentication protocols including LDAP and OpenID, while developing node packages for respective protocols to ease use for other IBMers.

Skills

Programming	Java, Node.js, C++, JavaScript, SQL, HTML5, CSS, Python, Jess
Research & Design	Contextual Inquiry, Cognitive Task Analysis, Wireframing, Prototyping, Storyboarding
Technologies	Android Studio, Arduino, Raspberry Pi, Particle, SQL, MongoDB, Redis, IBM Bluemix, AWS

Projects

Binary Tutor Learn Lab Summer School	Designed Cognitive Tutors to teach Binary numbers and Boolean Algebra to novices.	WeBike User-Focused Sensing Systems	Used Android to detect bicycle turning, and integrated with Raspberry Pi via Bluetooth.
Systems Modeling Tutor Personalized Online Learning	Used JavaScript to integrate Cognitive Tutor with interactive interface teaching system modeling.	Lightswitch Learning Media Design	Performed research, design, and prototyping to scaffold documentaiton of making process with students.
Explorable Earthquakes IBM Watson	Designed and constructed an online interface to teach earthquakes to 9th graders.	Mindfulness Educational Goals, Instruction, Assessment	Designed and planned curriculum to teach mindfulness to high schoolers.

Publications

Data Center Robot IBM Internship	Kevin DeLand, Jonathan Lenchner, John Nelson, Jonathan Connell, James Theonsen, Jeffrey O. Ke-phart, A robot-in-residence for data center thermal monitoring and energy efficiency management, Sensys '11, November 01-04, 2011, Seattle, WA.
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