ERIK PALUKA, M.Sc.

Full Stack JavaScript Developer Focusing on React + NodeJS

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CAREER HIGHLIGHTS

⭐ **Lead Engineer & Team Leader**
Lead engineer for three products which required the ability to interface well with clients, and full product ownership

💎 **Computer Science Researcher**
Spent over 4 years working in a computer science research lab where I specialized in multi-touch & spatial interaction (HCI)

⚡ **Research Studies**
Designed, conducted, and analyzed 6 different computer science research studies using the software systems that I developed

⚙️ **Digital Transformation**
Worked to transform a large traditional USA company's engineering team from traditional waterfall development to agile development

📈 **Sports Media Awards 2019 Winner for Best OTT Service**
CBS Sports – Lead Roku engineer whose team built a 24/7 live streaming app. Drove growth in key metrics: 7% in total unique viewers, 25% in average daily, 23% weekly and 19% monthly views

🎓 **Bachelor's and Master's Degree in Computer Science**
Research based degrees at Ontario Tech University – 2008-2015

EXPERIENCE

JavaScript Engineer

RBC Ventures + Ownr   📅 05/2019 - Ongoing   📍 Toronto, Canada

Legal tech company that helps to register and incorporate businesses
- Worked on helping to transform the product from the original MVP's monolithic architecture to a micro-services one built on top of AWS, as well as the creation of additional features
- Frontend built using React + Redux Observables with backend services built using Node.js and Koa

Agile Software Engineer & Transformation Engineer

TribalScale   📅 06/2016 - 03/2019   📍 Toronto, Canada

Software firm that builds web, mobile, & voice apps using agile methods
- Employed agile processes to rapidly ship high quality products including test-driven development, extreme programming (XP), & pair programming
- AAA – Transformed a large traditional USA company's engineering team from traditional waterfall development to agile development
- TribalScale – Frontend JavaScript developer on a team that built a resource allocation product using React + Flux and test-driven development (TDD)
- Radio.com – Lead developer of a two person team that built the JavaScript frontend of an audio streaming product featuring live + time-shifted content with continuously updated metadata and video + image ads. Used TDD, as well as developed a middleware server using Node.js + express.js
- CBS Sports – Lead Roku + BrightScript engineer of a two person team that built a 24/7 live streaming app, also featuring top highlights & videos
- AAA – Lead JavaScript + React + NodeJS developer of a two person team that built an account system + middleware using test-driven development

TECHNOLOGIES

JavaScript   Node.js   TypeScript   React + Redux   Express + Koa   Jest   TDD   Amazon AWS   Webpack   Java

OPEN SOURCE PROJECTS

Simple Multi-Touch – SMT

Multi-touch toolkit for Processing + Java
- SMT enables fast prototyping of multi-touch applications and has been used at multiple universities to support research initiatives

🔗 www.erikpaluka.com/research/smt/

TandemTable

Collaborative multi-touch tabletop system for tandem language learners written in Java
- Facilitates language learning by suggesting and grounding conversations on user-specified themes/topics with additional translation abilities
- Uses web services to provide digital media artifacts that contain up-to-date content
- Features voice activity detection (VAD) by including microphone support and implementing digital signal processing (DSP) algorithms

🔗 www.erikpaluka.com/research/tandemtable/

Multi-Leap

Java library that enables multiple Leap Motion controllers to be run on the same computer

🔗 github.com/paluka/Multi-Leap

SELECTED PUBLICATIONS

SpatialVis: Visualization of Spatial Gesture Interaction Logs

LIVVIL at IEEE VIS 2016

📅 2016   🔗 http://bit.ly/SpatialVisHCI

TandemTable: Supporting Conversations and Language Learning Using a Multi-Touch Digital Table

Graphics Interface Conference (GI '15)

📅 2015   🔗 http://bit.ly/TandemTable