ADAM BAILIN

[http://www.adambailin.com]

Impassioned tinkerer and problem solver with entrepreneurial spirit and borderline excessive attention to detail.

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Summary of Work

.com Gigwax April 2014 - Present

Co-founder, CTO/Product

Gigwax is a two-sided marketplace connecting 1000+ DJs with gigs (think “Airbnb for DJs”). We have connected DJs in New York with hundreds of gigs, and since we launched payments in late 2015, paid thousands of dollars out to DJs for performing. Responsible for the front/back-end architecture (php/mysql/redis/stripe api/javascript), some design, UI/UX, and occasionally DJing when one dropped out last minute. Raised $150k to date.

.com Pradux June 2011 - Present

CTO/Founding Engineer

As the founding engineer, continually responsible for bringing the company from a vision, business plan, and design mockups to a fully-featured web application. Pradux’s multi-part platform allows users to share and profit from their style, using interactive tagged photos. When another user purchases an item found through their shared items, we split whatever affiliate commission we get with the sharer. Leading all aspects of architecture and technology, we launched a working prototype of pradux.com within three months. Shortly after, we planned and built a self-contained affiliate network used to sign up retailers who did not have an existing affiliate presence (too costly to onboard retailers to an existing affiliate network like Linkshare). Our affiliate network tracks outgoing clicks to retailers’ online stores, who then report purchases back to us. Since we are at both ends of the transaction, we are able to assign incoming affiliate commissions to the users that drove them, and reward them for it. Pradux also hosts the largest database of fashion and lifestyle items seen on television (25,000 items and growing). Additionally, I’ve managed and mentored about a dozen engineers and interns that worked for us. Technologies used include ruby/rails, php, javascript, mysql, memcached, redis, Amazon AWS (EC2, RDS, S3), and Heroku. Raised $750k to date.

.com FreeCause April 2010 - June 2011

Software Engineer / Implementation Manager

Responsible for developing and shipping browser extensions and creating web services that powered them. Created powerful reporting interface used by developers and C-level executives to make business decisions. Used php, mysql, and javascript to prototype and build client-facing websites and internal apps. Supported legacy code (minor perl hacking) and troubleshot client issues.

.gov John A. Volpe National Transportation Systems Center June 2008 - April 2010

Computer Engineer [Crash Avoidance & Advanced Safety Systems Division]

Worked with a small team to evaluate the effectiveness of in-vehicle based safety systems for studies sponsored by the US Dept of Transportation. These safety systems consist of lane change/merge and lane departure warnings (lateral movement into clear or occupied lane, using side radar), forward collision warnings (approaching car ahead too fast, using front radar), and curve speed warnings (going into a curve too fast, using GPS to check against known road geometry). Using gigabytes of video and vehicle movement data collected from a fleet of cars and trucks outfitted with sensors and cameras, we developed algorithms to identify near-collisions (and saw some actual ones) and helped classify them based on observed distractions. Developed Excel sheets to automate data analysis as well as a widely used desktop application in C# .NET to match up 2/5/10 Hz vehicle data with 5 different angles of recorded video (having different frame rates).

.org Run4Haiti Founded Jan 2010

Co-founder

After returning from a visit to Haiti in Dec 2009, a major (magnitude 7.0) earthquake struck that caused significant destruction. Within a month, a friend and I incorporated a 501(c)(3) non-profit to help schools and organizations directly (too many large charitable organizations are notorious for taking upwards of 20% of donations for program expenses). Using relationships formed there, we donated $5,000 to an orphanage/school and we remain in contact with many of our connections still residing in Haiti.

.net Sensicast Systems Summer/Winter 2003-2007

Intern → QA → Hardware Hacker → Software Developer

Started interning with Sensicast after graduating high school in 2003. Every summer and winter break for the next four years was spent there with increasing work and responsibility. Their main product was a wireless mesh sensor network running on their proprietary 802.15.4 protocol. Typical days included: soldering hardware and assembling cables, connectors, and devices; testing hardware and radios in extreme environments (high heat, freezing cold, long range, harsh radio environments); testing software and fixing bugs where appropriate; configuring, maintaining, and deploying wireless mesh networks in-house and in customer locations; developing web, desktop, and mobile applications using PHP, javascript, MySQL, embedded C (MSP430 & Atmega128), C#, and Windows mobile. Supported the company through their series A fundraising round.

Education

.edu UMass Amherst 2007 - 2008

M.S. Transportation Engineering (A.B.T.)

Received a full scholarship to pursue an additional year at UMass Amherst studying Transportation Engineering. Completed traditional transportation coursework such as public transportation systems, roadway geometry, and traffic engineering, as well as more tech focused classes: intelligent transportation systems and simulation in transportation. Relevant topics include vehicle-to-vehicle and vehicle-to-infrastructure wireless networks, in-vehicle based safety systems and roadway sensor networks. After graduating, started work at Volpe with the intention to complete the thesis, but eventually decided not to pursue that route.

.edu UMass Amherst 2003 - 2007

B.S. Computer Systems Engineering

Computer Systems Engineering combined elements of computer science and electrical engineering. Relevant coursework included: database structure and design, advanced wireless networks, computer networks lab, microcontroller programming and design, and an audio design lab. During senior year, served as a teaching assistant for two 300-level courses required for third year computer/electrical engineers, Computer Systems Lab I & II. In each semester-long course, I taught students to program on ATmega32 MCUs (in assembly & C) and on Altera CPLDs (in Verilog, a hardware description language). Awarded the teaching assistant spot for excelling in the same class the year prior, where we explored audio synthesis and generation based on MIDI signal input, image capture and display using a camera and monitor connected to an Altera Cyclone II development board, and more. Later that year, led our Senior Design Project team to win third place (out of 16 teams) for our project “Intelligent Parking System”. Our system sampled images of a parking lot taken from a cheap webcam and output parking spot vacancies on a display at the entrance of the parking lot.

Hobbies & Activities

Music: have played 5 instruments in a dozen or so different groups. Currently producing remixes and DJing in NYC.
Outreach: volunteer with CoderDojo NYC, a nonprofit teaching children between 7-17 about web, app, and game development. Technical mentor at NYC Generation Tech hackathon where my team of high school students won first place (Feb 2015); participant in Hearst Fashion Hackathon (Feb 2013), Techcrunch Disrupt NY Hackathon (May 2012), Boston Hack Day (winning “best news-oriented hack” — Feb 2011).
Travel: visited some amazing cities in recent years: Stockholm, Tokyo, Kyoto, Berlin, Amsterdam, Cairo, Prague, Vienna.
Coding: enjoy trying out new technologies and languages that come about. Recent projects include real-time streaming and visualization engines using websockets and d3.js for visualization: EmojiWatch [emojiwatch.abailin.com] and PrayForParis [prayforparis.abailin.com]