Ben Bradley

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What I'm Looking For

The Work

I love working on back-end systems. Building efficient and intuitive APIs is something that I thoroughly enjoy. Learning to understand the data models and how best to interact with them is like untying a knot and putting together a jigsaw puzzle at the same time.

The People

I like to think of myself as an easy-going, friendly and respectful person and I prefer to spend my time around people who think similarly of themselves. When you work with people that are cool and level-headed, the debate about tabs vs. spaces (2 spaces!) isn't a distraction and you're able to focus on getting work done.

The Culture

I love to build things, solve problems, and make stuff happen, but at the end of the day, I do it all for my family. Finding a sustainable work/life balance is crucial. Of course there will be times when you have to answer the phone outside of "normal hours", but when that becomes the standard instead of the exception, it's time to re evaluate in order to find a better balance.

Work Summary

MAX Digital

- Deployed code to production GraphQL API within the first sprint
- Wrote tests for 100% of new code

Walmart Labs

- Subject matter expert for GraphQL API performing 20,000 transactions per minute
- Rapidly designed & implemented new features to enable multi-channel customer messaging during COVID-19 crisis

PaxIQ

- Overall responsibility for the design & operation of all aspects of the company's products
- Implemented Agile development practices and acted as Scrum Master and team member
- Designed, developed, and maintained Internet Booking Engine as the company's flagship product

Cigna Healthcare

- Authored 33 NPM packages and contributed to Mocha, SSH2, and JSONWebToken
- Created 5 full-stack applications built on Hapi and React to enable internal production support
- Engineered back-end tools and APIs integrating multiple technologies

- Architected QA Automation framework to validate external production REST API

Integra Telecom

- Developed a network topology mapping application built on JavaScript
- Wrote full-stack code for the Ethernet Services Provisioning application
- Created multiple applications to automate the routine functions of a Tier 3 Network Technician
- Designed, installed, configured and supported deployment of CA Infrastructure Manager 2.0
- Designed and configured CA Spectrum network fault management system

US Army

- Served as Intelligence Officer for the 7th Signal Brigade in Mannheim, Germany
- Served as Officer in Charge for voice and data network services in Baghdad's International Zone

Skills & Technologies

Back-end Development	Node.js, GraphQL, REST, Hapi, Apollo
Data Integrations	MongoDB, Redis, Kafka, Avro, Rabbit, MySQL, MSSQL
Front-end Development	React, MaterialUI, Backbone, D3.js, Bootstrap
DevOps	Nginx, GitHub, Google Cloud, OneOps, Dynatrace, Splunk
Software Development	Agile Scrum, Waterfall, TDD
Software QA	Mocha, Jasmine, Jest, JIRA
Telecommunications	Metro Ethernet, Fiber Optics, VoIP, Satellite
Network Engineering	OSI Layers 1-4, MPLS, BGP, OSPF, Ethernet
Project Management	Network Services, IT Infrastructure, Software
Operations Management	Logistics, Training, Personnel, Safety
Preferred Toolset	Atom, GitHub, Node.js, MongoDB, Ubuntu, React, Slack

Detailed Experience

Senior Software Engineer - MAX Digital

November 2020 - January 2021

Responsibilities

- Engineer solutions for GraphQL API

Accomplishments

- Deployed code to the Production GraphQL API within the first sprint
- Wrote tests for 100% of new code

Senior Software Engineer - Walmart Labs

September 2019 - November 2020

Responsibilities

- Design, support, & maintain GraphQL service providing content to web and mobile applications
- Day-to-day root cause analysis and resolution of operational issues
- Advise and coordinate with internal and external teams to integrate new clients and features

Accomplishments

- Achieved 100% code coverage
- Improved response time of GraphQL API by 50% by refactoring application code
- Designed and implemented feature to enable dynamic and targeted end-user messaging capabilities
- Refactored application data model in order to integrate with additional upstream data sources
- Scaled application from 2,000 transactions/minute to 20,000 TPM

Senior Software Engineer - PaxIQ

August 2017 - September 2019

Responsibilities

- Responsible for all technical aspects of the company's flagship products
- Design, develop, and maintain the systems, databases, networks and applications to support the delivery of the company's products
- Troubleshooting and investigation of multiple applications and integrations
- Training and professional development of Junior Developers

Accomplishments

- Built an Internet Booking Engine as a white-label airline booking and ticketing system that enabled online operations for small to mid-sized regional carriers
- Developed multiple rules-based integrations enabling intelligent, automated handling and processing of airline booking data into multiple disparate systems
- Redesigned and implemented coding standards in legacy airline operations software
- Created a distributed queuing system that converted airline inventory records from a fixed-length text messages into JSON and XML-based APIs
- Built a REST API that enabled modern integrations with legacy, terminal command-based systems
- Engineered the foundation that provided the foundation for the company's products

Senior Software Developer - Cigna Healthcare

April 2014 - August 2017

Responsibilities

- Rapidly develop back-end and full-stack applications to solve short or no-notice problems
- Work closely with the Quality Assurance and Development teams to understand and meet their automation needs
- Troubleshoot legacy production-internal NodeJS applications

Accomplishments

- Created a simulator for the Fitbit REST API to enable internal performance testing for internal and external clients
- Wrote more than 15 REST APIs and web applications to enable integrations using technologies that included Mongo, Redis, Rabbit, Kafka, Avro, TestRail, JIRA, Jama, Twilio, and Fitbit

- Successfully submitted a merge request to the auth0/jsonwebtoken project enable the availability to ignore expiration dates on JWTs Automated multiple MongoDB operations to enable QA performance and unit testing automation
- Wrote a library to allow interaction with Kafka and Avro via the NodeJS Streams API
- Built test frameworks to integrate Jasmine and Mocha tests with TestRail
- Developed several web applications that simplified complex SQL and NoSQL database interactions which greatly reduced time spent troubleshooting bugs

Senior Systems Developer - Integra Telecom

March 2011 - April 2014

Responsibilities

- Architect, implement, and support CA Spectrum fault management and Infrastructure Manager 2.0 performance management solution for nationwide network
- Review vendor solutions and help inform management regarding the capabilities of the application
- Develop custom integrations to provide seamless functionality between related systems

Accomplishments

- Developed multiple APIs extending functionality and presentation capabilities of vendor applications
- Designed, developed and implemented Ethring, a web application that provides visualizations of network topology enabling users to share a common, dynamic and real-time view of network connectivity and status
- Built front-end user interface for Enterprise Ethernet Service Provisioning application to automate the provisioning, modification, and deprovisioning of customer services
- Contributed to the "ssh2" NodeJS module to enable the invocation of arbitrary subsystems via SSH
- Architected, installed, configured, and supported a $2.1million CA Spectrum, and Performance Center deployment consisting of 42 Linux and Windows servers in three data centers

Tier 3 Network Services Technician - Integra Telecom

August 2008 - March 2011

Responsibilities

- Development and customization of multiple SharePoint portal sites
- Design and development of web-capable database applications to automate complex network tasks
- Provisioning and validation of Metro Ethernet solutions based on Cisco ME 3400 and 4900 switches
- Maintenance and operations of national data network backbone devices including Cisco 10000 and 7600 series routers

Accomplishments

- Developed and implemented systems, databases, processes, and standards to perform system upgrades of back-bone and customer-facing Cisco routers across the network. Implementation of these tools and processes reduced the downtime for approximately 40,000 customers from two hours to only 10 minutes
- Designed the business processes and SharePoint portal to coordinate network maintenance activities, resource allocation and customer notifications for a network spanning 13 states. This system processed an average of 450 maintenance activities per month and provided trending reports that enabled well informed business and technical decisions

- Created standards and web-based applications to automate the creation of system configuration scripts for Cisco Metro Ethernet devices and Allied Telesis iMAP fiber and DSL multiplexers. These tools enabled field technicians to quickly and accurately bring over 105 Cisco ME3400's and 75 ATI 9700's into the network making it possible for technical experts to focus on more critical issues

Intelligence & NetOps Officer - 7th Signal Brigade

March 2007 - May 2008

Responsibilities
- Compile and present reports executive management on a weekly basis concerning the status of multiple networks and ongoing operations throughout Europe and Central Asia
- Overall responsibility for the planning, designing, installing, configuring, and troubleshooting of LAN and WAN network devices and supporting infrastructure Developing and maintaining documentation of network design, problems and resolutions, processes and policies
- Supervision of five personnel who conducted network management for data networks across the European theater

Accomplishments
- Developed policies, procedures, and systems for reporting project and operational statuses for an 800 person organization
- Designed and implemented multiple databases to automate reporting procedures. Resulted in increased efficiency and reduced reporting time from hours to seconds
- Successfully planned and executed the first deployment of the Tactical European Theater Network Operations Center
- Accomplishments recognized with the Army Commendation Medal

Officer in Charge, Communications - MNF-I

August 2005 - February 2007

Responsibilities
- Providing voice and data communications networks to over 4000 customers in Baghdad's Green Zone. Total network availability was maintained at 99% despite the multitude of challenges unique to a hostile environment
- Ensuring the safety, training, and well-being of 27 Soldiers in a combat zone
- Managing the maintenance, operation, and accountability of more than $10 million of network hardware which included network outage/latency root-cause analysis and troubleshooting, maintaining and upgrading network infrastructure, documentation of network design, issue resolution, techniques and procedures
- Responsible for six supervisors who managed 125 technicians in nine functional areas
- Briefing the MNF-I CIO on a weekly basis concerning the status of networks and operations

Accomplishments
- All 27 Soldiers under my authority returned home safely after spending one year in Baghdad
- Developed reporting database using Microsoft Access & Excel to interface with Remedy ticketing system. This solution reduced report generation time from hours to minutes and facilitated the expedition of root cause analysis
- Planned and installed fiber optic and user access infrastructure where none had previously existed to support the addition of over 1000 users to three separate networks in less than one week

- Managed the installation of IT infrastructure into the Iraqi High Tribunal Courthouse, site of the Saddam Hussein trial Recognized with the Bronze Star Medal and Army Achievement Medal for the superior performance of the department

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