Patrick R. McGrath

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Available Jun – Dec 2018

EDUCATION

Northeastern University, College of Computer Information Science   Boston, MA
Candidate for a Bachelor of Science in Computer Science; Entrepreneurship Minor, exp. 2020   *Sep 2016 - Present*
- *Academics*: **3.69/4.0** GPA, Dean's List (all semesters)
- *Activities*: Vice President and Lead Developer at NU ACM, IoT Open Innovation Lab, Agape Executive Board

TECHNICAL SKILLS

Programming Experience: Ruby / Rails, JavaScript, Node.Js, Vue.Js, Elm, HTML, CSS/Sass, Java, C++, C, Python, SQL
Technology: Google Tag Manager, Webpack, AWS, Heroku, Swagger, Mixpanel, RESTful Api, git, jQuery, Unix

PROFESSIONAL EXPERIENCE

PlacePass / Marriott Moments   Cambridge, Massachusetts
UI Engineer   *Jun 2017 – Present*
- Spearheaded the design and implementation of the analytics suite for Marriott Moments, collecting actionable data on over 480,000 users and counting using Google Tag Manager, jQuery, and Mixpanel
- Engineered countless new features across Marriott Moments as a lead member of the UI team, with scalability in mind (to handle 25,000 transactions p/m), and helped **double** the experiences conversion rate
- Architected and developed the UI and middle tier implementation of user accounts, including registration, session management, and checkout form pre-population on Marriott Moments, using Ruby on Rails and JavaScript
- Translated marketing needs to in depth specifications, then implementing necessary marketing analytics unblocking $1M in marketing resources from Marriott

Digital Innovation and Strategy Research Assistant   Boston, Massachusetts
Researcher, Developer   *Sep 2016 – Apr 2017*
- Led the development of the IoT Open Innovation Lab's web portal as a member of the founding team, helping build the online infrastructure for much of the organization using PHP, JavaScript, SQL, HTML, and CSS
- Pioneered technical solutions to a university-wide research project focused on improving participation in grant requests, ultimately developing a system over 40% more effective than its predecessor

Forgecraft Servers   Madrid, Spain
Founder, Owner, Sole Manager   *Dec 2013 - Jul 2015*
- Created and managed two virtual servers that hosted an environment for gamers to play Minecraft with each other, achieving a 436% ROI
- Hired, trained, and led a staff team of over 15 people to support our 6,500+ unique players
- Developed custom solutions to in game problems using Java and open source libraries, to improve the experience of players

LEADERSHIP EXPERIENCE

Boy Scouts of America   Weston, CT
Eagle Scout and Junior Assistant Scoutmaster   *Sep 2009 - Jun 2014*
- Spearheaded Eagle Scout project designing and carrying out a renovation project with the help of fellow Scouts for Weston Historical Society, fulfilling 100+ hours of community service requirement in order to achieve Eagle Scout rank
- Co-led a troop of over 60 Scouts during weekly meetings and monthly camping trips

ADDITIONAL SKILLS & INTERESTS

Languages: Fluent in English; conversational ability in French, Spanish
Interests: Avid traveler (20+ countries), photography, hiking in Southwestern America (Co-led a 110 mile backpacking trip over 12 days in New Mexico), camping, skiing, Hackathons (MIT Fintech, HackBeanPot)