Patrick R. McGrath

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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*: **3.7/4.0** GPA, Dean's List (all semesters)
- *Activities*: Agape Leadership Team, President and Lead Developer at NU ACM, IoT Open Innovation Lab

TECHNICAL SKILLS

Programming Experience: Python, Ruby / Rails, Vue.Js, JavaScript, Node.Js, HTML, CSS/Sass, Angular, Java, C++, C, SQL
Technology: Apache NiFi, Elastic Cloud, MongoDB, Google Tag Manager, Webpack, AWS, Docker, Swagger, Mixpanel, git

PROFESSIONAL EXPERIENCE

PlacePass Boston, Massachusetts
Data Engineer *Jul 2018 – Present*
- Worked with the Director of Engineering to architect and implement the structure for data ingestion of all product data, using Apache NiFi for data orchestration, MongoDB for state management, and Python for data transformations
- Designed and implemented the automation and deployment process for product data using Apache NiFi, ElasticSearch, MongoDB, Python, and Java
- Engineered custom machine learning models using Elastic's ML features to better identify fraudulent purchases using anomaly detection

UI Engineer *Jun 2017 – May 2018*
- Helped architect and implement the analytics suite for Marriott Moments, collecting actionable data on over 3.64 million 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

Digital Innovation and Strategy Research Assistant Boston, Massachusetts
Researcher, Developer *Sep 2016 – Apr 2017*
- 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

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 11 days in New Mexico), camping, skiing, Hackathons (MIT Fintech, HackBeanPot)