

# Patrick R. McGrath

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Available Jun – Dec 2018

## EDUCATION

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### 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

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**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

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### 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 requests p/s), 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

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### 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

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**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)