

# Patrick R. McGrath

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## EDUCATION

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### Northeastern University, Khoury College of Computer Sciences

*Candidate for a Bachelor of Science in Computer Science; Entrepreneurship Minor, exp. 2020*

Boston, MA

*Sep 2016 – Present*

- *Academics:* **3.75/4.0** GPA, Dean's List (all semesters)
- *Activities:* President of Agape Christian Fellowship, Former President of NU ACM, IoT Open Innovation Lab

## TECHNICAL SKILLS

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**Programming Experience:** Python, Ruby / Rails, VueJs, MongoDB, JavaScript, NodeJs, HTML, CSS/Sass, Java, C++, C, SQL

**Technology:** Apache NiFi, Elastic Cloud, Google Tag Manager, Webpack, AWS, Docker, Swagger, Mixpanel, git, Unix

## PROFESSIONAL EXPERIENCE

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### PlacePass

Boston, MA

*Data Engineer*

*Jul 2018 – Dec 2018*

- Architected and implemented the automation and deployment process for *all product data* using NiFi, Elasticsearch, MongoDB, Python, and Java, enabling daily updates of products that was previously updated every month
- Worked with the Director of Engineering to design and build the structure for data ingestion of product data, using Apache NiFi for data orchestration, MongoDB for state management, and Python for data transformations
- Cut the onboarding time of new partners in half by developing standardized components with config driven systems

*Full Stack Engineer*

*Jun 2017 – May 2018*

- Architected and implement the marketing 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, and helped **double** the experiences conversion rate

### Digital Innovation and Strategy Research Assistant

Boston, MA

*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

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### Victoria McGrath Foundation

Boston, MA

*Board Member*

*Feb 2018 – Present*

- Managing all tech-related assets while helping direct the course of the foundation

### 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

## ADDITIONAL SKILLS & INTERESTS

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**Languages:** Fluent in English; conversational ability in French, Spanish

**Interests:** Avid traveler (25+ countries), photography, hiking in Southwestern America, camping, skiing, hackathons