

Brian Aguirre

Software
Developer

Brian N Aguirre

brianaguirre.github.com 

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Skills & Interests

JAVA, Python, C++, JavaScript, SQL, HTML, CSS, Bootstrap, JQuery, UI & UX Design, Terminal, XCode, Sublime Text 3, PyCharm, Microsoft Office Tools, Arduino, Digital Logic Design. OOP, Agile (SCRUM), SDLC, TDD: Unit, System & Performance Testing, Research, Automation, HCI.

Fluent in Spanish & French, Public Speaking, Prime Number Theory, Running & Tennis, Open Source Code & Research Advocate, Arduino Projects, Hackathons, and Diversity in STEM

Experience

Software Engineering Extern / Center for Open Science

Spring 2017 - Spring 2017, Charlottesville, VA

- Redesigned the OSF site in order to create a more personal dashboard that features better content and other COS services.
- Built two new features - "Recommended" and "History", which automated searching through research projects for best content and mapped all of the untagged projects on the site through user activity.
- Tools Used: Full stack development (SQL, php, HTML, CSS, JavaScript, Sketch), Git, GitHub, SFTP, Terminal/Command line, API: (GitHub & Center for Open Science)

Computer Science Research Assistant / UVA School of Engineering

Fall 2016 - Present, Charlottesville, VA

- Conduct manual research on GitHub Open Source (OS) Contributions in order to better understand how OS can be improved. Catalog and create parameters which determine why a pull request (PR) was rejected or accepted on a given repo.
- Create algorithms and tests that help determine whether machine learning or AI could solve miscommunication or timing errors pertaining to PR's on GitHub.
- **Tools Used:** GitHub, Python, Microsoft Office, XCode, Adobe Suite

Computational Math Research Assistant / UVA Mathematics Department

Fall 2015 - Fall 2016, Charlottesville, VA

- Developed algorithms in order to test out Big(O) and Big(Θ) notations for certain data structures: Hash Tables, Heaps, as well as trees.
- Wrote a test library in order to automate testing within the data structures we looked at. Presented results for non-technical staff members.
- **Tools Used:** C++, iOS, LaTeX, Algorithms, SublimeText

Frank Batten School of Leadership & Public Policy / IT Assistant

September 2014 - January 2016, Charlottesville, VA

- Solved software and hardware problems for iOS and Windows computers. Set up Network security for the Batten.Community site, and automated SIS data transfers.
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Education

University of Virginia / B.A. Computer Science & Mathematics

August 2014 - Spring 2017, Charlottesville, VA

Honor Society | Dean's List | Winner of hackathons Hosted by UVA and ACM Club | **Relevant coursework:** Algorithms, Advanced Software, HCI, Databases, Data Structures, Internet Scaling Applications, Linear Algebra, Differential Equations, Courses in Topology and Business.

Awards

VMATYC Scholarship, COSYNE 2015 Grant, Dean's List, SEAL Award, Phi Theta Kappa, Who's Who Among Students in American School & Colleges, UVA's Math Grant, Merit Based Scholarships, AU's Hackathon Winner, COS Externship Hackathon Winner.