

# WILL BADART

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Third-year Notre Dame computer science major (concentration in cyber security) with background in web and application development. Experienced leader of small, cross-disciplinary teams. Fast, motivated learner, ready to meet new challenges.

## ACADEMIC

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**University of Notre Dame** South Bend IN (projected grad. May 2018) *Major GPA: 3.81/4*, select coursework:

Junior (fall 2016 only): Data Structures, Computer Architecture, Theory of Computing, Web Applications, History

Sophomore (2015/16): Computing I & II, Discrete Math, Calc III, Lin. Alg./ Diff. Eq., Phys II, Logic Design, Philosophy

Freshman (2014/15): Engineering I & II, Chem I, Phys I, Calc II, Theology, Microeconomics, Philosophy

**International School** Bellevue WA (grad. June 2014) *GPA: 3.941/4, SAT: 2160, SAT II Math 2: 720, ACT: 34*

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## EMPLOYMENT

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**Strategic Innovation Associate Developer** Jun 2016-Aug 2016 | Booz Allen Hamilton, D.C.

Led the development efforts of BAH's Innovation Services (IS) intern group. Worked with a small team of consultants and developers to overhaul IS's existing metrics platform, which clients use to inform executive decision making. *Skills: Web Development, Agile Methodology, Data Analytics & Visualization, Big Data, Predictive Analytics & Machine Learning*

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**Web Developer** Sep 2015-present | ND Department of Computer Science

Overhauled the Notre Dame Mobile Computing Lab Website. Integrated dynamic, modern features such as an administrative control panel into a responsive interface. Constructing UROC job and research portal (see select project).

· *select project: Undergraduate Research Opportunities in Computing*

Built a modern, responsive website connecting faculty and their research to undergrads. Supports multiple users and session-long authentication. Periodically run penetrations tests on the app to ensure that no new features compromise user data. *Skills: Web Development, Encryption, Multi-user Systems & Authentication, MVC, Angular.js*

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**Lead Developer** Oct 2014-present | Kaneb Center for Teaching and Learning

Working collaboratively with small team to create websites and produce and distribute media for Notre Dame Kaneb Center for Teaching and Learning. Materials focus on the educational value of digital media, and how to apply it in academia.

· *select project: Remix Redesign Project*

Combining the multiple branches of the Notre Dame Remix project into a single, modern site. Full scale web app development project with a small team (4 people). *Skills: Web Development, SQL, Data Structures, Project Management*

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## PERSONAL PROJECTS ([github.com/wbadart](https://github.com/wbadart))

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**Oracle – Study Edition** Apr 2016

A text-based networking puzzle written at the socket level. Challenges users to “break into” its network and decrypt the messages found. *Skills: Network programming in Python, Network mapping tools, Concurrent Programming*

**Tempo** Oct 2015

Built an app at the 2015 IrishHACKS hackathon that used a Bluetooth heartrate monitor to dynamically build a playlist on Spotify. Based on a web service of my construction which handled all API interaction for the Android client. Won the OIT CIO Innovation Award. *Skills: Node.js, Android/Java, Small Team App Development*

**Winston** Jun 2015-Aug 2015

As an exercise to help teach myself Ruby, I wrote Winston, a program that “reads” and analyzes newspaper articles and uses the data to generate sentences. Winston Jr. is the next iteration of this project. Written in Python, Jr. currently has a 4,000+ word vocabulary. *Skills: Ruby, Python, Algorithms, Big Data Analysis*

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## ACCOMPLISHMENTS

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- Self-taught Python, JavaScript, TypeScript, PHP, SQL, Angular (1 & 2), HTML, CSS
- Adept in Unix environments, Git, C, C++, MATLAB, Adobe Creative Cloud programs, Member ACM
- Fluent in German; studied for 7 years, culminating in a month long exchange trip (2014), beginner in Russian
- Booz Allen Summer Intern Games Finalist (2016), Booz Allen Incubator Contest Finalist (2016), ePortfolio Excellence Award (2016), OIT CIO Innovation Award (2015), Remix Multimedia Badge Recipient (2015), AP Scholar w/ Distinction (2014), National Merit Commended Student (2013), Bellevue Community Leadership Norm Maleng Award (2013)
- Experienced woodwind musician, member of Notre Dame Jazz 1 band