



Brandon  
Ellington

Networked+Social  
Systems Engineer



June 25 1993



United States



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## About me

Using systems thinking to link big picture insights with individual experiences, I make the necessary connections to help teams move forward faster.

### Interests

- Building technical and social trust into systems.
- Measuring growth in creative and valuable ways.
- Using critical thinking to empower organizations to make change.

## Skill

Systems Engineering



Critical Thinking



Python



Social Data Mining



Version Control



emacs\*3.4 shell\*3.4 database  
querying\*3 org-mode\*3  
object-oriented programming\*2.9  
image provisioning\*2.5 clojure\*2.1  
php\*2

(\*)[The skill scale is from 0 (Fundamental Awareness) to 6 (Expert).]

## education

2017-2020 Bachelor's of Science  
Networked and Social Systems Engineering

The Evergreen State College

2017-2020 Bachelor's of Arts  
Philosophy

The Evergreen State College

## awards, activities, and achievements

June 2019 Innovation Across the Americas Award Recipient

2017-2019 Lynda.com CRM Advancement Fellow

October 2018 Equity Honors Nominee

2017-2018 Student Representative to the Evergreen Board of Trustees

June 2017 Computer Engineering Scholarship

June 2017 Presidential Equity Advisor

## projects

09/17-Pres. IPDE: Integrated "Personal Development" Environment Personal  
Created an extended cognitive system for development and personal information management, which leverages Org-mode within Emacs. Provisioned virtual machine images and Docker containers to reproduce the system. Decreased cognitive switching by between 50-100% for tasks such as locating and reading online documentation, running shell commands during development, version control, and developing tests and documentation with code. Increased knowledge capture and management from dozens of ideas per year to hundreds. Repo: <https://github.com/branjam4/branos-provisioning.git>

01/19-08/19 Campus Systems Engagement Project Evergreen  
Brought together members of faculty, student government, and campus leadership to collaboratively determine shared goals, governance, and views of systems thinking. Led initiative which reduced communications delay among student, faculty, and staff leadership from once or twice per year to once or twice per quarter. Assisted in creation of a quarterly student caucus identifying opportunities for faculty and staff support. Used causal loop diagrams to recommend key internal partnerships.

04/17-09/18 Communication Optimization With public organizations  
I advocated for a communication optimization project among two related organizations, then led its execution. Required technology upgrades and visioning based on systems thinking. Implementation increased weekly communications among colleagues to almost daily, improving project coordination and group resiliency. Technology upgrades reduced repetitive tasks for office staff from five hours to less than one hour, through transitioning manual budget processing and report distribution to an automated self-serve model.

06/17-09/17 Software Internship- Web Development Enterprise Development Team  
Engineered an enterprise web application refactor with PHP and Drupal. Increased code maintainability through improving documentation, test-driven development, and object-relational mapping. Learned how to speed up the development cycle through sprint planning sessions and other Agile methodologies. Learned how user stories reduce the feedback loop between ideation and execution, building both technical and social trust into systems through requirements gathering, sprint planning, database design, unit testing, and version control.

04/17-06/17 Financial Insecurity Sentiment Analysis Public nonprofit client  
I led a team collecting social data and building a semi-automated sentiment analysis algorithm within Python and R in collaboration with a public nonprofit. My initiative, detailed requirements gathering, and a breakdown of the client's methodology led to reduced confusion on the team about the technical goals of the project. We used our insights and expertise to help the client improve collaborations with other organizations and communications with the community.

