



Brandon  
Ellington

Networked+Social  
Systems Engineer



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United States



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## About me

I use metacognition to link big picture insights with individual experiences, I make the critical 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  
Cyberphilosophy

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

February 2018 Featured Speaker: DRIVE Conference 2018

October 2017 Speaker: Return to Evergreen- Governor's Mansion Event

June 2017 Computer Engineering Scholarship

June 2017 Presidential Equity Advisor

## projects

09/17-Pres. IPDE: Integrated "Personal Development" Environment GitHub  
The Evergreen program "Student-Originated Software" demonstrated the value of computational kindness: the ethical principle of lowering the cognitive burden on ourselves and others, inspired by efficient algorithms. Within the program I created a reproducible virtual machine image of an extended cognitive system for development and personal information management, which leverages Org-mode within Emacs. I continue to use and improve the software on a daily basis. Link to my provisioning repo: <https://github.com/branjem4/branos-provisioning.git>

01/19-08/19 Campus Systems Engagement Project Evergreen  
For my capstone, I applied systems theory and an interdisciplinary analysis of networks to augment participatory governance on campus. Through interviews and use of causal loop diagrams I identified key campus partnerships between faculty, staff, and students. My work culminated with presenting a workshop showcasing my discoveries to a group of faculty and staff in their summer institute series.

04/17-09/18 Governance Optimization Project Evergreen Student Government  
Inspired by the Evergreen program "Language and Power," along with insights from ethics and technology seminars, I advocated for a governance optimization project involving representatives of the student body and Services and Activities Fee Allocation Board members, then led its execution. The purpose of the project was to responsibly use both bureaucratic and charismatic power to improve the student experience, through using better communication structures, technology upgrades, and a strong sense of vision.

06/17-09/17 Enterprise Web Application Refactor- Student Elections Evergreen  
Engineering an enterprise web application refactor to improve student elections on campus taught me about building both technical and social trust into a system through requirements gathering, sprint planning, database design, unit testing, and version control. Systematized elements such as the Agile methodology and user-interface design increased my interest in quantifying the process of building trust itself, influencing future study. Project used PHP and Drupal.

04/17-06/17 Sentiment Analysis (ALICE awareness) United Way of Pierce County  
I led a team collecting social data and using sentiment analysis within Python and R in collaboration with United Way of Pierce County to help them answer this question: "What actions can we take to reshape the system that created Asset Limited, Income Constrained, Employed (ALICE) households?" I rose to the challenge of putting the "social" in "social data mining"- exercising initiative, soft skills, and servant leadership to ensure the project's success.