Brandon Ellington

Networked + Social Systems Engineer

Education

Apr 2016 – Dec 2020 **Bachelor's of Science**, *The Evergreen State College*, Olympia, WA.
Networked + Social Systems Engineering

Apr 2016 – Dec 2020 **Bachelor's of Arts**, *The Evergreen State College*.
Philosophy

Experience

Jun 2017 – Sep 2017 **Software Internship- Web Development**, *The Evergreen State College*, Enterprise Development Team.

- Enterprise web application rewrite 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 through requirements gathering and test-driven development.

Projects

VIP-Dev Environment Project

Virtualized Integrated "Personal Development" Environment

1. Created an extended cognitive system for development and personal information management utilizing Org-mode within Emacs.
2. Containerized system within Docker; alternate version of the system virtualized within a qemu image.
3. Decreased cognitive switching by 50-100% for tasks such as locating documentation, test-driven development, and keeping code notebooks.
4. Increased knowledge capture from dozens of ideas per year to hundreds through interactive journals and literate programming.

Repo: `https://github.com/branjam4/branos-provisioning.git`

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Communication Optimization

1. Advocated for technology upgrades and visioning based on systems thinking and led execution of the project within two related organizations.
2. Implementation increased weekly communications among colleagues to almost daily, improving project coordination and group resiliency.
3. Technology upgrades improved user experience and reduced repetitive tasks for office staff from five hours to less than one hour.

Financial Insecurity Perceptual Improvement

1. Led a team collecting social data, building a semi-automated sentiment analysis algorithm within Python and R in collaboration with a nonprofit.
2. Used insights to help our client improve community outreach efforts and enhance collaborations with other organizations.
3. Initiative and detailed requirements gathering led to increased understanding of the technical goals of the project.

Coursework

Computer Science Courses
Digital Logic, Computer Architecture, Discrete Math, Python, Java, Clojure. Basic data structures and algorithms. Intermediate computer networking.
Modelling Change
Self-study which applied network theory, systems theory, and complexity analysis to improving organizational agility. Learned how engagement and inclusivity increase team productivity. Came to appreciate the value of "computational kindness-" making decisions as simple to mentally and emotionally process as possible.

Awards, Activities, and Achievements

Jun. 2019 Innovation Across the Americas Award Recipient
Oct. 2018 Equity Honors Nominee
2017-2019 Lynda.com CRM Advancement Fellow
2017-2018 Student Representative to the Evergreen Board of Trustees
Jun. 2017 Computer Engineering Scholarship Recipient
2017-2018 Presidential Equity Advisor

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