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| ABOUT | Software engineer passionate about holistic (environmental, social, economic) sustainability. Skilled in front-end design, distributed systems, ETL and data analysis. |
| EDUCATION | University of Connecticut, Storrs, CT Fall 2014 – Spring 2018 *B.S. in Mechanical Engineering, Minor in Philosophy, 3.6 GPA* Congressional Certificate of Merit, New England Scholar, Philosophy Club Cofounder |
| PROFICIENCIES | *Front-End:* JavaScript, React (redux), HTML/CSS, Flask *Production:* AWS (Certified Associate Developer), CI/CD (Puppet, git), Agile/Scrum *Data Analysis:* Python, GIS (PostGIS, PostgreSQL), NLP (sklearn, SpaCy) |
| SELECT PORTFOLIO | Environmental Project Fall 2020 *newperspective.life* Pachama  Porfolio Site Fall 2020 *almiller.coe* Portfolio site and blog. Built in Flask. static site for life-coaching site built to provide. Using Flask, AWS Lambda, S3, and CloudFront.  AWS Developers Certificate – Associates Fall 2020 *Certificate ID: 12345667* Developed proficiency in AWS cloud systems, applied in projects.  Natural Language Processing Summer 2020 *newperspective.life* Serverless static site for life-coaching site built to provide.  New Perspective Life Coaching, LLC. Fall 2020 *newperspective.life* Serverless static site for life-coaching site built to provide. |
| EXPERIENCE | MPR Associates, Inc., Washington, D.C., 2018 - Present Highly multi-disciplinary consulting engineer, select experience including: Technical:   * Tested developed SLURM, RHEL, end-to-end testing under an incredibly strict Nuclear regulatory environment * Performed computational fluid dynamics (CFD) to validate designs using ANSYS CFX; adoption of designs saved millions of dollars in retrofits! Developed agile environement * Performance verification testing including test procedure design and execution using LabVIEW/DAQ equipment to support FDA approval of a commercial medical device, embedded systems Terra Term.   Interpersonal   * Audited aspects of large capital projects for federal clients including the US Department of Energy (Office of River Protection) for the Hanford site in the Columbia River Gorge, and the National Science Foundation, performing an Earned Value Management (EVM) Surveillance Review and schedule health analysis (Primavera P6) for its $350 million Regional Class Research Vessel project in Louisiana |
| INTERESTS | Naturalism (hiked entirety of Pacific Crest and Appalachian Trails). Music (classical pianist). |

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|  | United Technologies, Windsor Locks, CT 2017 – 2018  Senior Thesis, A Novel Method for Sealing Porous Plates  Leader of a student team, working with faculty and manufacturing companies to design and analyze a novel method for sealing heat-exchanger porous plates on the CST-100 Starliner crew transport capsule for the International Space Station, reducing process costs by 90%; validated the design through Finite Element Analysis (ANSYS LS-DYNA) and physical testing, and presented the concept to executives at United Technologies for future adoption  General Dynamics, Electric Boat, New London, CT 2016  Intern  Assisted a team of project engineers in execution of a large capital construction project of an on-shore test facility at Cape Canaveral for the US Navy through CAD modeling of system components with Siemens NX; interpreted and improved HVAC system control diagrams and building P&IDs, and performed head loss calculations for large piping systems using Excel  Nguyen Research Group, Storrs, CT 2015 – 2018  Researcher, nguyenresearchgroup.com  Co-authored A Biodegradable Piezoelectric Force Sensor in PNAS (14% acceptance rate)  Co-authored 3D nano- and micro-patterning of biomaterials for controlled drug delivery in Future Science  Spring Valley Student Farm, Storrs, CT 2015 – 2018  Farmer  Volunteered at an organic, self-sustaining farm; lived on the farm in 2017–2018, grew a community through education and outreach; co-designed and built a functional 1,000-gallon aquaponic system  University Residential Life, Storrs, CT 2017 – 2018  Resident Assistant  Facilitated an environment of inclusion and support within a community of over 40 students    Engineers Without Borders, Storrs, CT 2014 – 2016  Volunteer  Supported development of a small-scale irrigation system to transport fresh water to remote communities Ethiopia’s Amhara region; led design discussions and communications with an international project team |