

EXPERIENCE	<b>Software Engineer (Backend)</b> <b>Creative Juice</b>	<i>May 2021 – Present</i>
	<ul style="list-style-type: none"> <li>Built and deployed a new backend banking-as-a-service platform managing over 200 funded accounts and \$2MM+ of deposits, built with Spring Boot, Unit Finance, and Plaid.</li> <li>Automated loan repayment collection from Google AdSense payments using Pub/Sub messaging and Java microservices, saving 10+ hours a week of human interaction</li> </ul>	
	<b>Undergraduate Research Assistant</b> <b>Genetic Logic Lab</b>	<i>University of Utah Sep 2019 – May 2022</i>
	<ul style="list-style-type: none"> <li>Advisor: Prof. Chris Myers</li> <li>Implemented a sequence search tool on SynBioHub, an open-source repository for synthetic biology designs, enabling users to search for similar genetic sequences by uploading a genetic sequence file.</li> <li>Maintainer for SBOExplorer, a distributed search tool for genetic parts using Elasticsearch to create an inverted index for faster queries.</li> </ul>	
EDUCATION	<b>University of Utah</b>	<i>Salt Lake City, UT Aug 2019 – May 2022</i>
	<ul style="list-style-type: none"> <li>B.S. in Computer Science, Minor in Mathematics; 3.85 GPA.</li> <li>Dissertation: SynBioHub 3 - An Improved Synthetic Biology Repository</li> <li>Advisor: Dr. Chris Myers</li> </ul>	
AWARDS	<b>Best Startup Project</b> <b>HackTheU</b>	<i>Oct 2019</i>
	<ul style="list-style-type: none"> <li>Created a smart waste management system called HastyWaste using IoT sensors embedded onto garbage bins to collect data for management and optimization of waste disposal routes.</li> </ul>	
	<b>National Merit Finalist</b> <b>National Merit Scholarship Corporation</b>	<i>Jan 2019</i>
	<ul style="list-style-type: none"> <li>Selected as one of 15,000 students from a pool of more than one million candidates to receive a college-sponsored scholarship.</li> </ul>	
SKILLS	<b>Programming</b> Java, Spring, SQL, Hibernate, Lombok, Mockito <b>Tools</b> Git, Unix, Elasticsearch, Docker, L <sup>A</sup> T <sub>E</sub> X <b>Languages</b> English, Mandarin Chinese, Cantonese	
TALKS	<ol style="list-style-type: none"> <li>SynBioHub2 - Providing an Intuitive and Maintainable Genetic Design Repository, <i>The Thirteenth International Workshop on Bio-Design Automation</i>, Virtual, Sep. 2021.</li> <li>SynBioHub3: A Redesigning Parts Repository, <i>Hackathons on Resources for Modeling in Biology 2021</i>, Virtual, Mar. 2021.</li> <li>Sequence-based Searching For SynBioHub Using VSEARCH, <i>The Twelfth International Workshop on Bio-Design Automation</i>, Virtual, Aug. 2020.</li> </ol>	
PUBLICATIONS	<ol style="list-style-type: none"> <li><b>Yu, E.</b>, Mante, J., and Myers, C. J. (2022) Sequence-based searching for synbiohub using VSEARCH. <i>ACS Synthetic Biology</i> 11, 990–995.</li> <li>Mante, J., Hao, Y., Jett, J., Joshi, U., Keating, K., Lu, X., Nakum, G., Rodriguez, N. E., Tang, J., Terry, L., Wu, X., <b>Yu, E.</b>, Downie, J. S., McInnes, B. T., Nguyen, M. H., Sepulvado, B., Young, E. M., and Myers, C. J. (2021) Synthetic Biology Knowledge System. <i>ACS Synthetic Biology</i> 10, 2276–2285.</li> </ol>	