ROHAN AHLUWALIA

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EDUCATION

Yale University, B.S./M.S. in GPA: 3.84/4.0, Coursework ind Systems Programming (Cs 323 470), Probability (Stat 241), OI Westview High School Portla Class of 2020, SAT: 1570/1600 TECHNICAL SKILLS	Computer Science New Haven, CT Eludes: Data Structure and Programming Techniques (Cs 22), Discrete Mathematics (Math 244), Linear Algebra (Math oject-Oriented Programming (Cs 327), Computer Vision (Cs and, OR Of GPA: 4.47/4.0, Activities: Baseball, President of Science F	May 2024 3), Computer Architecture and 225), Artificial Intelligence (Cs s 475) June 2020 Fair Club, Founder of HOSA, MUN
Programming Languages	C++, C, Python, R, Java, MATLAB, Bash, x86 Assembly Mathematica AWS MATLAB Vim Emacs IATEX Git	/ Microsoft Office
EXPERIENCE		
 TSAI City Summer Fellowsh Student Founder PF Glucose selected as one connections from Yale and 	of 15 startups to receive \$15,000 in grant funding along wit TSAI City	New Haven, CT May 2021 — Aug 2021 th mentorship, and venture capital
• Presented in Demo Day in .	August 2021 to angel investors, engineers, and venture capit	talists
 PF Glucose <i>Founder/CEO</i> Created and developed pate Prototype's initial accuracy 	nt-pending technology to noninvasively detect glucose for i is consistent with other glucose monitors on the market (pf	New Haven, CT Oct 2018 — Present individuals with diabetes glucose.org)
 Yale University School of Eng Undergraduate Researcher, De Paper "Bayesian Structural Interventions" accepted interventions" accepted interventions (ADHD, Schizophrenia, De 	neering and Applied Sciences <i>ppt. of Biomedical Informatics and Computer Science</i> Time Series for Biomedical Sensor Data: A Flexible Model p PLOS Computational Biology (https://doi.org/10.1371/jou algorithms for sequential wearable sensor data to determine pression) in adolescents	New Haven, CT Sept 2020 — Present ling Framework for Evaluating urnal.pcbi.1009303) indicators of brain/mental illnesses
 City of Hope Hospital Data Science and Machine Learning Intern, Dept. of Computational Medicine Developed Bayesian framework for understanding interactions between personalized over time 		Arcadia,CA Jun 2019 — Sept 2019 rugs and glioblastoma cancer genes
 Oregon Health and Science University Machine Learning Researcher, Dept. of Biomedical Engineering Created a differential equation-based algorithm for postprandial meal modeling to in algorithm for artificial pancreas systems 		Portland,OR Jun 2017 — Jun 2019 rove the model predictive control
ACTIVITIES		
Token Nonprofit President of 501 © 3 Nonprofit • Founded Token to help und • Raised funding for more th	<i>Organization</i> erprivileged children with chronic conditions in developing an 10 children via 5K Charity Runs, Events, and Auctions	Portland,OR Jan 2018 — Present countries receive medical supplies

HONORS

- Regeneron Science Talent Search, named Top 300 Scholar in the most prestigious science research competition for high school seniors for my noninvasive glucose monitor (Jan 2020)
- Intel/Regeneron International Science Fair, Second Place Grand Award in Biomedical Engineering in May 2019. Second Place in AVASA Foundation, 2019. Third Place in SPIE, 2019. Finalist in Biomedical Engineering in May 2018.

PUBLICATIONS

[1] Liu J, Spakowicz DJ, Ash GI, Hoyd R, Ahluwalia R, et al. (2021) Bayesian structural time series for biomedical sensor data: A flexible modeling framework for evaluating interventions. PLOS Computational Biology 17(8): e1009303

[2] Ahuwalia, R. (2019) A Real-Time Detection System using Advanced Imagine Techniques to Diagnose Lipohypertrophy in People with Insulin Dependent Diabetes. JOURNYS, Journal for Youth in Science (Issue 10.2)