Brett A. Cornick
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PROFILE
Versatile and tech-focused project leader with a passion for advancing Web3 and Industry 4.0 technologies including blockchain, data management, and machine learning. Entrepreneurial mindset with leadership experience at early-stage start-ups. Seeking new and exciting opportunities in blockchain, DeFi, and DeSci.

SKILLS & INTERESTS
- Technical project management
- UI/UX design, Figma
- Physics and materials science
- Front-end web development
- HTML/CSS/JS, Python, C++
- Machine learning and AI
- Cryptocurrencies, DAOs, & DeFi
- Tokenomics design
- Generative & technology-driven art

CERTIFICATIONS
Web Developer Bootcamp – Udemy (2022)
- 64-hour course covering a robust collection of full stack development tools including HTML/CSS/JS, AJAX, NodeJS, REST, MongoDB, command line, and more

Figma UI/UX Design – Udemy (2022)
- 12-hour course covering UI/UX design principles, prototyping, animations, and micro interactions

Blockchain Technology Management Certificate – UCLA (2021 – 2022)
- 4-course certificate covering practical applications and implementation of blockchain, relevant business implications and opportunities, and fundamental technical features and considerations

Machine Learning Certificate – Stanford/Coursera (2021)
- Certificate covers machine learning fundamentals, datamining, and statistical pattern recognition with topics including supervised and unsupervised learning, neural networks, deep learning, and bias theory

PROFESSIONAL EXPERIENCE
Impact Finance   December 2021 – Present
Founder/CEO
- Founded company on the principles of using web3 technologies to produce real world impact
- Built front-end prototype of a decentralized funding platform that uses DeFi-native tokenomics innovations to pool community funds and direct them towards scientific research
- Designed and built company website, litepaper, brand assets, marketing materials, and pitch deck using HTML/CSS/JS, React, Netlify, Figma, and Powerpoint
- Designed and tested complex incentive systems involving ERC-20, ERC-721, and ERC-1238 tokens
- Managed company outreach and presented project vision and design at Consensus and ETH Amsterdam

Epic Advanced Materials (Subsidiary of NanoVentures)   March 2020 – February 2022
Head of Technology
- Led the scale-up and construction of a $1.2MM inductively coupled plasma-based synthesis reactor for the commercial production of boron nitride nanotubes (BNNTs) and related BN nanomaterials
- Headed B2B outreach for technical partnerships, concurrently serving as primary point of contact and project manager for 7 separate collaborative projects with partner organizations
- Served as primary technical writer on funding proposals with multiple government agencies and research laboratories in machine learning, computer vision, nanotechnology, and data management
- Enabled private fundraising efforts by preparing and delivering technical presentations to showcase our technology development with internal investment board, potential customers, and VC groups
- Built and pre-processed training dataset for convolutional-neural-network-based (ResNet50, VGG16, Inception models) computer vision tool for the analysis and extraction of key features from TEM images

Nanoarmor (Subsidiary of NanoVentures)   August 2016 – February 2022
Technical Product Manager (intermittent, contractual)
- Optimized carbide ceramic matrix composite feedstock compositions using an AI/ML-assisted design-of-experiments method that can rapidly identify Pareto efficient solutions
- Served as Principal Investigator for CNSI Magnify incubator program and a core team member in Phase I and Phase II SBIR work contracts with the US Missile Defense Agency and NASA
- Redesigned and implemented new cybersecurity practices and infrastructure to adhere to new CMMC rules for the handling of Controlled Unclassified Information from DoD stakeholders
- Streamlined supply chain processes by identifying multi-functional partners to reduce the number of stakeholders from 16 to 4 and drastically increase process efficiency

Accenture   March 2019 – March 2020
Technology Consultant
- Evaluated as-is state of a Fortune-100 company's outdated identity and access management system to identify security vulnerabilities and delivered a complete redesign strategy and roadmap
- Developed automation software tools using Python, Postman, and the Okta client management API to streamline identity attribute update processes for over 100,000 active users across multiple environments

Drywired   June 2016 – March 2019
Technical Product & Partnerships Manager
- Served as primary technical representative during client/investor presentations in the US and the Middle East discussing thermoelectrics, photocatalytic oxidation, and energy conservation technologies
- Evaluated hundreds of inventions in diverse subject areas for potential product-market fit and influenced the selection and development of over 20 products or processes that are now commercially available
- Mentored and supervised team of 2 student interns, assigned and oversaw R&D and lab duties, and held bi-weekly safety/performance meetings to assess their contributions and provide constructive feedback

Lawrence Livermore National Laboratory   July 2017 – October 2018
Student Summer Intern – Materials Science (part-time)
- Performed molecular dynamics simulations using Python, LAMMPS, and high-performance computing clusters to predict grain boundary evolution and material deformation in extreme environments
- Investigated grain boundary phase transitions using an evolutionary grand-canonical search algorithm to identify novel grain boundary structures in FCC and BCC lattices

EDUCATION
University of California – Los Angeles (UCLA)   September 2017 – December 2018
M.S. Computational Materials Science, GPA 3.8
Leadership, Awards, and Extracurriculars:
Leadership in Professional Development Scholarship, eGSA, Rocket Project, Scuba Club

University of Southern California (USC)   September 2012 – May 2016
B.S. Chemical Engineering, Nanotechnology Emphasis, GPA: 3.3
Leadership, Awards, and Extracurriculars:
National Merit Scholarship, USC Presidential Scholarship, ZBT Academic Scholarship, Zeta Beta Tau Fraternity (Head of Member Development), Junior Blind of America (Volunteer), Formula SAE Racing Team

EXTRACURRICULARS
- Speaker: Schelling Point Amsterdam (Gitcoin, 2022)
- Speaker: DeSci Day (Devconnect, 2022)
- Winner: ID3 Ideathon (phase3, 2022)
- Founders cohort (Launch House, 2022)
- Young Professionals Chair (AIAA, 2020)
- Scientific journal editing and review (CACTUS)