

**Brett A. Cornick**  
Los Angeles, CA  
(801) 651-4566 || [brettcornick@gmail.com](mailto:brettcornick@gmail.com)  
[brettcornick.com](http://brettcornick.com) || [cornperson.eth](https://cornperson.eth) || [@brett\\_cornick](https://twitter.com/brett_cornick)

## **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
- Front-end web development
- Cryptocurrencies, DAOs, & DeFi
- UI/UX design, Figma
- HTML/CSS/JS, Python, C++
- Tokenomics design
- Physics and materials science
- Machine learning and AI
- 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, marketing materials, and pitch deck using HTML/CSS/JS, React, Netlify, Figma, and Powerpoint
- Designed and tested complex incentive systems involving ERC-20, ERC-1155, 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

*Materials and Simulations Engineer (intermittent, contractual)*

- 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
- Optimized carbide ceramic matrix composite feedstock compositions using an AI/ML-assisted design-of-experiments method that can rapidly identify Pareto efficient solutions

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