Vienna Parnell

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EDUCATION

Vanderbilt University – Nashville, TN **May 2026**
B.S. Computer Science & Applied Mathematics | Minor: Engineering Management GPA: 3.80
<u>Honors:</u> National Merit Scholarship Recipient, Dean's List (2022-2024)
<u>Coursework:</u> Intermediate Software Design, Database Management Systems, Algorithms, Programming Languages, Digital Systems, Data Structures (Teaching Assistant), Discrete Structures, Technology Strategy, Compiler Construction, Numerical Methods
<u>Fellowships:</u> Netflix x Formation, Google CS Research Mentorship Program, Product Space, Social Changemakers, Resident Advisor

Institute For Study Abroad (IFSA): Tech Career Accelerator – Prague, Czech Republic **Spring 2025**

EXPERIENCE

Netflix Los Gatos, CA
Software Engineer Intern *May 2025 – present*
- Currently onboarding for Studio Orchestrator Team, preparing to contribute to tools that enhance media production workflows

Communication and Language Lab, Vanderbilt University Nashville, TN
Research Assistant *Sep 2024 – Dec 2024*
- Analyzed reading patterns of 500+ participants by leveraging R and Python libraries to perform web scraping and data cleaning
- Extracted content from 60+ articles to enable natural language processing and study the impact of digital reading on behavior

Institute for Software Integrated Systems, Vanderbilt University Nashville, TN
Software Engineer Intern *May 2024 – Aug 2024*
- Developed full stack React dashboard to visualize 1200+ hours of autonomous vehicle driving data, utilizing Mapbox, Chart.js, Turf.js, and Material UI for vehicle trajectory exploration and to support research on traffic jam mitigation
- Designed and implemented RESTful API endpoints using PHP and Python for vehicle data retrieval from on-site Apache2 server, collaborating with 9-person hardware team to optimize data flow from vehicle sensors to the web application
- Developed a responsive web interface using JavaScript, HTML, and CSS, integrated with a CAN-to-ROS architecture, enabling domain-specific exploration of vehicle trajectories, kinematic signals, and sensor data

Pure Mentorship San Jose, CA
Technical Product Manager *Jun 2023 – Aug 2023*
- Spearheaded 22-person cross-functional team to lead bottom-up redesign of company website, collaborating with developers to create high-fidelity mockups and implement dashboards and blog using GitHub, HTML, CSS, and JavaScript
- Boosted mentee signups by 200% in 2 months by devising strategic outreach solutions with local legislature and school boards
- Achieved 60% mentee retention rate by tailoring mentoring curriculum, training materials and platform experience based on user interviews, A/B testing, defined success criteria, and key performance indicators (KPIs)

PROJECTS & LEADERSHIP

CRUXO | *Data Analyst* *Feb 2025 – present*
- Analyzed 90,000+ lines of e-commerce transaction data using the Apriori algorithm to uncover nuanced trends in consumer behavior and identify high-lift product pairings, informing strategic market basket recommendations
- Engineered Python-based ETL pipeline to automate user website behavior data processing, enabling efficient user segmentation
- Improved association rule accuracy by 54% for a pharmaceutical client, driving stronger predictive insights and advertising

NextChapter | *Developer* *Jan 2025 – present*
- Developed book club recommendation app using React Native and Firebase, designing wireframes in Figma, implementing user authentication and interactive chapter-based commenting, and using Expo Go to test and iterate based on user feedback
- Integrated Google Books API via RESTful endpoints to support interactive book discovery and discussion features
- Conducted 12+ customer discovery interviews to identify pain points and prioritize features for personalized reading experience

"Hot Girl Tech" Podcast | *Co-Host & Producer* *Oct 2022 – present*
- Co-host series focusing on uplifting women in tech and addressing student issues through interviews and educational content
- Produce high-quality episodes using GarageBand and Descript, developing compelling scripts with integrated sound effects
- Grow and maintain a dedicated listener base of 100+ unique individuals through strategic content planning and marketing effort

Pioneer Academics | *Program Coordinator & Alumni Advisory Board Member* *Jul 2022 – Sept 2022*
- Conducted deep learning research on facial emotion recognition using OpenCV, NumPy, TensorFlow, and Matplotlib
- Assessed multi-layer network on diverse micro- and macro-expression datasets, achieving a 63% validation accuracy
- Authored 20-page manuscript that earned an A grade and received 2.0 credits from Oberlin College

SKILLS

- **Languages & Frameworks:** Java, C++, HTML, CSS, Python, JavaScript, React, Mapbox, Chart.js, PHP, JSON, MySQL, R
- **Tools:** JetBrains, Microsoft 365, Visual Studio Code, Git, RStudio, SketchUp, Figma, Asana, Trello, prompt engineering