Brandon CHIN

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Berkeley EECS Senior, passionate about full stack development and creating dynamic, user-focused applications!

EDUCATION

University of California Berkeley, College of Engineering (GPA: 3.741/4.0) **Graduating May 2025**
B.S Electrical Engineering and Computer Science

Relevant Coursework: Structure & Interpretation of Computer Programs; Data Structures; Machine Structures; Probability and Random Processes; Efficient Algorithms; Discrete Math & Probability Theory; Principles & Techniques of Data Science
Societies: Eta Kappa Nu (IEEE-HKN Honors Society), CS Mentors, Cal Rotaract, Malaysian Student Association

WORK EXPERIENCE

Backlinker.AI, *Full Stack Developer Intern*, San Francisco CA **September - December 2024**

- **Increased customer growth by 22% within a month** by implementing key frontend design features such as utility functions and website routes using Typescript, Next.js, and HTML, enhancing user experience and engagement
- Leveraged machine learning, Retool, and Python to implement automated backend pipelines through LLM integrations and workflow automation frameworks, resulting in a **17% increase in workflow productivity**
- Led PostgreSQL database optimization, website enhancements, and seamless pipeline integration, **improving data retrieval times and system scalability**

Nexa Speech, *Full Stack Developer Intern*, Berkeley CA **January - May 2024**

- Adapted NeMo Guardrails for LLM protection against vulnerabilities, **decreasing daily security flags by 31%**
- Architected and deployed scalable frontend systems, optimizing folder structures, design components, and API gateways using React Native and JavaScript, **improving application efficiency and maintainability**
- **Led a team of 3 engineers** to develop and deploy a personalized recommendation system using CNNs, Keras, and TensorFlow, enhancing user engagement through tailored content delivery
- **Introduced app-wide multimodal interaction** through fine-tuning audio generation LLMs using StyleTTS models and custom datasets, increasing user accessibility and interactivity

Vector InfoTech, *AI Research Scientist Intern*, Singapore (Remote) **May - August 2023**

- Collected customer data and performed text embedding for fine-tuning customer experience models, **expanding our model's reach and specificity**
- Developed matching algorithms for personalized recommendations in advertising and products
- Logged developmental user studies and validated testing models for deployment, **evaluating 350+ user experiences**

RESEARCH EXPERIENCE

KAIST Interaction Lab, KIXLAB, *Undergraduate Research Intern,* Daejeon South Korea **June 2024 - April 2025**
Incorporating Gricean Maxims into Human-LLM Conversations

- Conducted several user studies and design workshops on communication deficiencies in human-LLM interactions
- Utilized multi-agent framework to handle user queries and improve intent alignment **to 90% success rate**
- Deployed an interface with subtask decomposition, characteristic tuning, and output refinement using React & Flask
- **Achieved ~30% increased user satisfaction** in comparison to ChatGPT interface

Paper accepted to CHI '25 (32.8% acceptance rate): Link
Paper under review to UIST '25: Link

UC Berkeley Haas School of Business, *Undergraduate Project Lead Researcher,* Berkeley CA **August 2022 - Present**
Improving Human Sequential Decision-Making And Collaboration With LLM Intervention

- Explored how humans make decisions and how AI can improve human performance through explanations, **boosting performance by 8% through personalized recommendations**
- **Designed a specialized experiment** for sequential decision making using React and Python
- Analyzed differences in performance between AI intervention techniques, **improving collaboration by 32%**

TEACHING EXPERIENCE

CS Mentors, *Junior/Associate Mentor*, Berkeley CA **August 2022 - May 2024**

- Held LGBTQ+/affinity tutoring sections for 5 students weekly through minilectures and leading discussions
- Part of the DEI team to facilitate URM Computer Science students through external support and resources