CHELSEA SHE

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EDUCATION

Cornell University, Ithaca NY | Bachelors of Arts & Sciences in Computer Science   *Aug 2024 - May 2028*
- *GPA: 3.9*
  Relevant Coursework: OOP & Data Structures, Discrete Structures, Multivariable Calculus, Linear Algebra, Intro to Python, Intro to Backend Development, Intro to Android Development, Multivariable Calculus, Intro to Cognitive Science, Intro to Linguistics
  Clubs: Digital Technology Initiative (DTI) Project Team, Women in Computing at Cornell, Chinese Student Association, CRU

Adlai E. Stevenson High School, Lincolnshire IL   *May 2024*
- *GPA: Weighted: 4.80 / Unweighted: 4.00*
  Relevant Coursework: AP Physics C E+M, AP Calculus BC, AP Statistics, AP Psychology, AP Computer Science A, Multivariable Calculus, Linear Algebra, Website Development, Mobile App Development

SKILLS

Technical: JavaScript/HTML/CSS (5 yrs), Python (4 yrs), Swift/SwiftUI (3 yrs), Java (3 yr), React (3 yr), SQL (1 yr), Kotlin (1 yr)
Developer Tools: NextJS, GoogleCloud/Firebase, Supabase, ShadCN, VSCode, Android Studio, XCode, Apple Developer, Git, Postman
Libraries: pandas, NumPy, Matplotlib, TensorFlow
Interests: Volunteering/Service, Mentorship/Teaching, Baking, Tennis/Pickleball, Running/Hiking, Art, Golf

EXPERIENCE

Cornell CIS Bowers Undergraduate Researcher | *Python, JavaScript, AWS, NLP, OpenAI API, Pandas, Plotly*   *Jun 2025 - Present*
- Researched the impact of genAI on constructive learning in writing tasks to inform the design of AI educational tools
- Designed and implemented a study interface to capture keystrokes and raw user interaction logs during writing sessions
- Analyzed keystroke data using NLP techniques, including Parascore and semantic similarity metrics, to assess depth of learning and writing behavior; visualized results using Plotly graphs

Digital Technology & Innovation Project Team Developer | *React, TailwindCSS, Supabase, ShadCN, Git, v0*   *Feb 2025 - Present*
- Developing an all-in-one fundraiser website called CURaise for Cornellians to more easily donate and raise money
- Frontend developed server and client components for both the buyer and seller sides of the website, including the fundraiser and organization home pages

Emory University Research Assistant - *Remote*   *Jun 2023 - Present*
- Writing a **review paper** alongside Professor Kai Shu about the **psychology behind misinformation** and **human-centered solutions** to combating both human-written and **AI-generated** misinformation

Code Ninjas Lead Instructor - *Long Grove, IL*   *Oct 2021- May 2024*
- Taught **100+** young coders the fundamentals of coding
- Led middle school student program centered on **game development** curriculum: Scratch (**block coding**), **JavaScript**, Roblox Studio, **Unity (C#)** and assisted elementary school students with Scratch Jr. (block coding), Code Spark, circuits

FELLOWSHIPS

Headstarter Fellowship | *NextJS, OpenAI API, Firebase, Stripe, Clerk, Pinecone* | *Youtube Demos*   *June 2024 - August 2024*
- Developed 5 projects: a personal landing page, pantry inventory tracker (Cloudinary image classification), misinformation education chatbot (**OpenAI API**), AI flashcard generator (with Stripe upgraded accounts), and **RAG** rate my professor chatbot (Pinecone) | deployed projects on Vercel and Github, posted a Youtube video demo for each
- **Full stack Swift developer** that developed an **iOS mobile app** called *InstaVerify*, which detects misinformation through ChatGPT API integration to further educate users on misinformation detection techniques | *demo*

Inspirit AI Fellowship Research Publication | *AI/ML, NLP (BERT), GitHub, Google Colab*   *July 2023 - Nov 2023*
- **Published** a research paper on a long text, explanatory, state of the art (SOTA) performance **fake news detector**
- Compared differences between **SOTA fake news detector** performances trained with long news article texts and short twitter texts.
- Published to Journal of Student Researcher High School Edition | Research Paper | GitHub

Inspirit AI Scholar Program | *AI/ML, NLP, GitHub, Google Colab* | GitHub   *April 2023*
- Learned how to develop machine learning models including **computer vision, NLP, and neural networks**
- Made a project using **Natural Language Processing** on Twitter posts to determine overall positive, negative, and neutral sentiments on a particular company (to predict investment potential)
- Obtained accuracy score of 97.36% with **BERT model**

PROJECTS

AppDev Hack Challenge | *Swift, Firebase, SQL, Python* | Demo | GitHub   *October 2024 - December 2025*
- Learned **backend app development** from Cornell AppDev course (routes, databases, SQL, Docker, and deployment)
- Developing a **lost and found app** named *Found* that aims to help Cornellians find their lost items throughout campus
- Implemented secure user authentication with **FirebaseAuth** and data storage with **SQL**

SHSConnect Communication App | *Swift, JS, Firebase, APNS, CocoaPods* | Demo | GitHub   *March 2023 - Aug 2024*
- Developed a messaging iOS app to foster communication among **4K+** students and deans as a **full stack Swift developer**
- Automated push notifications using **Firebase Cloud Functions (JS)** to manage **FCM tokens** and integrate with **APNS**, ensuring timely notifications based on real-time message events in **Realtime Database**.
- Implemented secure user authentication with **FirebaseAuth** and user data storage in **Realtime Database**, while automating mass user creation from CSV uploads to **Firestore** using Firebase Functions.