YONGKANG CHENG

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EDUCATION

University of Toronto (St. George Campus), Toronto, ON   Sep 2023 - May 2028 (expected)
Bachelor of Applied Science in Computer Engineering + PEY Co-op
GPA: 3.92/4.0 (Top 30 among first-year ECE students)
Relevant Courses: Applied Fundamentals of Deep Learning, Software Design and Communication

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TECHNICAL SKILLS

- **Programming:** Python, C/C++, JavaScript/TypeScript, SQL
- **Tools:** Docker, Git, Linux, FastAPI, Nginx
- **Data and Visualization:** Pandas, NumPy, Matplotlib
- **Version Control:** GitHub, GitLab

EXPERIENCE

Frontend Manager, Voluntrack.org (Non-Profit)   May 2024 - Present
- Coordinated a 4-person frontend team using React.js to renew the web interface.
- Conducted biweekly stand-ups, assigned tasks in GitHub Projects, and streamlined communication in the team.
- Improved user engagement by approximately 20% through enhanced app layouts and intuitive user flows.

Project Lead, Handwritten Text Recognition (University of Toronto)   Jun 2024 - Aug 2024
- Led a remote team to develop a PyTorch-based CRNN model for handwritten text recognition.
- Deployed connected-pixel algorithms for word positioning and word segmentation, processing 1024×1024 images in under 4 seconds.
- Achieved 87% word-level and 95% character-level accuracy on a 10,000+ sample dataset.

WillPower | Time Management & Monitoring   Jan 2025 - Present
- Built a modular system with Raspberry Pi capturing images and sending them to a Windows host for analysis.
- Deployed Nginx, FastAPI, and Jenkins pipelines for seamless CI/CD and system integration.
- Designed data-sorting algorithms to enhance real-time monitoring capabilities and analysis efficiency.

PROJECTS

Self-Clone Chatbot with Diary Database   Oct 2024 - Present
- Built a self-hosted AI-powered chatbot using React.js, FastAPI, and Nginx on a Raspberry Pi.
- Integrated OpenAI API and a NoSQL database for real-time Q&A functionality with personal diary data.
- Ensured secure and seamless remote access by implementing TLS encryption and DDNS.

RainBirthdayGift | AI-Driven Chatbot   Apr 2024
- Built a GPT-4-powered chatbot in 3 days using C#, .NET, and WPF framework.
- Enhanced responsiveness with asynchronous API calls and optimized user interaction flows.

AWARDS & ACCOMPLISHMENTS

ECE Awards & Dean's List Scholar (UofT)   Sep 2024
- Recognized for outstanding academic performance (GPA 3.92/4.0).

American Computer Science League (ACSL) - Bronze Prize   Jan 2021
- Placed in top 10% overall, with top-20% scores in the 4th round, after 60 hours of training.