Megan Chang

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EXPERIENCE

AI-Media Toronto, ON

Software Engineer *Jan 2025 – Present*

- Serve as one of two backend engineers owning Lexi, Translate, and Voice Cloud, AI-Media's flagship live captioning/translation products and primary revenue driver, carrying full end-to-end product ownership from technical design through production support
- Design and maintain backend services in Java on AWS EKS, using DynamoDB, ElastiCache, CloudWatch, Amazon MQ, CloudFormation, and EC2 to support 400+ concurrent daily customers
- Drive technical planning and execution: define scope, break work into tickets, coordinate priorities across engineers, and report progress and risks directly in leadership meetings
- Own incident response for production systems, resolving issues promptly and strategically to maintain service reliability
- Modernizing legacy components of the platform originally built by engineers no longer at the company, improving maintainability while shipping new features on a biweekly-to-monthly release cycle
- Conduct code reviews and write unit, integration, and API tests; author test and deployment plans and maintain CI/CD pipelines for releases

Junior Software Engineer *Oct 2023 – Jan 2025*

- Independently shipped major features end-to-end in the Lexi suite, working across both backend (Java/AWS) and the eegcloud.tv frontend/API
- Owned deployment to production and incident response for features built, without relying on senior engineers

Software Engineer Intern *Jul 2023 – Oct 2023*

- Designed and built an automated test suite for the API products from scratch, where none had previously existed, improving the team's confidence in shipped releases
- Onboarded onto the Java/AWS backend stack, contributing bug fixes and small features to Lexi/Translate/Voice Cloud

Respeaker *Sept 2022 – Jul 2023*

- Live-captioned high school, university, and professional graduate classes in real time using the Dragon speech-recognition system, processing and voicing dense subject matter under strict prep-time constraints
- Diagnosed and resolved technical issues live on-air, maintaining full availability and reliability throughout each session, experience that directly carried into production incident response as an engineer

EDUCATION

Western University London, ON

MSc Computational Biochemistry *Sept. 2019 – Dec 2021*

Western University London, ON

BMSc in Computational Biochemistry *Sept. 2015 – May 2019*

PUBLICATIONS & PROJECTS

Published Research | *MATLAB, Python, Bash, Linux*

- **Chang, M.**; Wilson, C. J.; et al. Exploring the Conformational Landscape of the Neh4 and Neh5 Domains of Nrf2 Using Two Different Force Fields and Circular Dichroism. J. Chem. Theory Comput. 2021, 17 (5), 3145–3156. doi.org/10.1021/acs.jctc.0c01243.
- Wilson, C. J.; **Chang, M.**; et al. KEAP1 Cancer Mutants: A Large-Scale Molecular Dynamics Study of Protein Stability. Int. J. Mol. Sci. 2021, 22 (10), 5408. doi.org/10.3390/ijms22105408.

TECHNICAL SKILLS

Languages: Java, Python, C++, JavaScript, MATLAB, SQL, Bash
Cloud/Infrastructure: AWS (EKS, EC2, DynamoDB, ElastiCache, CloudWatch, Amazon MQ, CloudFormation), Kubernetes, Linux
Tools/Technologies: Git, HTML/CSS, LaTeX
Libraries/APIs: Matplotlib, pandas