Use this resume guide and sample to help you create your resume for *Programming, Software Engineering* and relatedinternships and full-time jobs.

To use this guide and sample:

1. Review and use the foundational guidelines on page 1 to get started.
2. Highlight sections on page 2 and replace it with your relevant details.

*Do not plagiarize from this sample or add information to your resume that is false or exaggerated!*

1. Visit Engineering Career Services a drop-in resume review:

Room 3300 DCL

Monday – Friday, 1:00 pm – 4:00 pm

**Name and Contact Info Section**

* Your name should appear in larger font ​
* List your contact info on one line ​underneath your name
* GitHub, LinkedIn or Personal website links are nice touches ​
* Physical address not needed

**Education Section**

* First year students can include High School to show a GPA until you have a University GPA
* Grad students can align previous degrees under current degrees using the same layout
* University name and major should be spelled out entirely​​
* Follow the exact placement for recruiter convenience​​
* Remove excessive details about scholarships/awards ​​
* Related coursework is optional
* List coursework that provided projects, labs, and hands-on learning
* Use course names, not course numbers, for related courses

**Skills**

* This section will quickly capture a recruiter’s attention ​with technical keywords
* Group your skills together in broad, relevant categories to save space
* Use bullet points to incorporate skills and provide practical examples

**Quick Tips for Writing Bullet Points for Work Experience, Projects and Extracurriculars**

* Show different experiences, even non-engineering jobs and clubs, to show a variety of skills/abilities
* List each task or responsibility you completed
* Review the list and determine the specific skill/ability you want to convey for each task or responsibility
* Select an action verb/phrase that conveys your intended skill/ability to start the bullet point
* Ensure each bullet point focuses on a single skill/ability
* Diversify the action verbs using our [Resume Action Verb Handout](https://uofi.app.box.com/file/984325917841?s=swp9mfis0pf176o6dyocgpzacpooran5)
* Quantify your results to show the cost-efficiency, productivity, scale, if possible

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**EDUCATION**

**University of Illinois at Urbana-Champaign** Aug 2023 – Expected Dec 2025

*Master of Computer Science* GPA: 3.60/4.00

* **Courses:** Natural Language Processing, Practical Statistical Learning, Computational Photography, IoT, Software Engineering, Methods of Applied Statistics, Computer Security II, Applied Machine Learning, Advanced Bayesian Modeling

**University of Illinois at Urbana-Champaign** Aug 2020 – Aug 2023 *Bachelor of Science in Computer Science* (**with Honors**) GPA: 3.56/4.00

* **Courses:** Object-Oriented Programming, Data Structures, Algorithms & Models, Computer Architectures, Software Design,System Programming, Database Systems, Data Mining, Data Visualization, Artificial Intelligence
* **Scholarship: U of I Foundation Scholarship**

**WORK EXPERIENCE**

**State Farm**  Champaign, IL

*MAGNet Intern (Spring) - HLDI Vehicle Rating GLM for Collision Coverage* Jan 2025 – May 2025

* Designed a **Generalized Linear Model** **(GLM)** with **Tweedie Regression** using **Scikit-learn** and **statsmodels** on **AWS SageMaker** to predict vehicle collision pure premiums from **10M+** records, achieving an exceptional **2.85 lift** and **0.135 Gini coefficient** for risk ranking; managed model experimentation and versioning with **mlflow**.
* Conducted **EDA** and **feature engineering** via **PCM templates**; implemented **supervised binning**, **one-hot encoding**, and **weight-of-evidence transformations** to ensure linearity, address missing data and boost generalizability; employed **correlation matrices** and **VIF** to diagnose and resolve multicollinearity, enhancing model robustness.
* Explored Feature importance & Interactions using **Xgboost**, engineered new predictors that amplified predictive power while reducing collinearity.
* Conducted **Posterior EDA** to validate linearity and monotonic relationships between predictors and response. Subsequently built a standardized scorecard to serve as a reference for ongoing actuarial research and production scoring.

*MAGNet Intern (Summer) – Text Mining at Scale with Large Language Models May* 2025 – Present

* Developing an end-to-end **LLM-driven** pipeline for large-scale call-center transcript analytics using **LangGraph**, **AWS Bedrock,** and **SageMaker Studio**; current focus includes summary generation and taxonomy induction from customer-agent call transcripts to support intent classification and downstream automation.
* Built a scalable **MapReduce-style** summarization node to asynchronously process **15,000+** transcripts using State Farm **GaaS-hosted** LLMs to ensure data privacy through guardrail anonymization; applied **prompt engineering** for consistent, high-quality outputs across diverse conversation types.
* Designing and iterating on a taxonomy generation pipeline using multi-step LLM prompting to identify, refine, and structure hierarchical customer intent categories from summary-level transcript batches.

**PROJECT**

**AWS Presents: Breaking Barriers Virtual Challenge** Champaign, IL *SignFrame Translator: Real-Time Sign-to-Gloss Pipeline* May 2025 – Jun 2025

* Engineered a real-time sign-language detection pipeline by fine-tuning a **YOLOv10** model on custom datasets and deploying inference at the edge via **AWS SageMaker**.
* Orchestrated a **LangGraph** workflow that converts frame-level gloss tokens into coherent sign-language sequences and invokes an AWS Bedrock LLM to generate fluent English translations.
* Leveraged cloud GPU instances to train the YOLOv10 model for 1,000 epochs, optimizing parameters to reduce overfitting and enhance convergence stability, achieved over 90 % detection accuracy on live webcam.

**TECHNICAL SKILLS**

**Programming:** Python, Java, C/C++, HTML/CSS, JavaScript, Verilog, R, MIPS/x86-64 Assembly, Haskell, Swift, MATLAB

**Frameworks:** Backend (Spring, Flask, Django), Database (MySQL, MongoDB), Frontend (React, Vue3), Deploy (Docker, k8s)

**Tools:** AI/ML(Pytorch/Tensorflow,pandas,numpy) Raspberry Pi, Construction(EC2,S3,ElasticLoadBalancer,CloudFront,RDS)