# Nicholas Tillmann

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## SKILLS

- **Languages:** Python, Javascript, Typescript, Java, Go, PostgreSQL
- **Frameworks:** Next.js, React.js, Node.js, Express.js, Angular.js, Flask, Cypress, TailwindCSS,
- **Tools:** Git, Gitlab, Jira, Potman, SonarQube, Docker, K8s, Kafka
- **Services**: AWS, GCP, IBM Cloud, SageMaker, S3, EC2, OAuth2.0, Firebase, Supabase, Vercel, Heroku, Zeet,
- **Certifications:** IBM Enterprise Design Thinking Practioner | IBM Blockchain Essentials

## WORK EXPERIENCE

**IBM**                                                                                         *May 2022 - August 2022*
*Software Engineer Intern*                                                            *Raleigh, NC (Remote)*
- Developed branded login pages from scratch using Typescript, Next.js, Express.js, Node.js, and Passport.js; seamlessly integrated with IBM Cloud services while also adhering with strict design guidelines provided by IBM Carbon Design
- Implemented secure REST API with Express and IBM Cloud, featuring user authentication, login, password reset, email notifications, and multi-factor authentication
- Streamlined retailer onboarding and data management tasks by 60% through Python scripts, enabling seamless user administration tasks such as retailer integration, activity monitoring, and enhanced efficiency.
- Improved product reliability by integrating comprehensive Cypress E2E tests into the CI/CD pipeline, promoting consistent weekly quality assurance updates to uphold performance upkeep on the platform.

**Leidos**                                                                                   *June 2021 - December 2021*
*Software Engineer Intern*                                                                          *Reston, VA*
- Collaborated with the Annex Intelligence team on the design, development, and deployment of web and mobile applications for the US NCTC, contributing to the successful implementation of counter-terrorism initiatives
- Played a key role in developing features and functionalities for web portals primarily using Vue.js, Node.js, Elastic Search and S3 services resulting in an improved user experience and more efficient data processing
- Demonstrated proficiency in working with a diverse set of tools including but not limited too JIRA, Docker, GitLab, SonarQube, Git, Postman, MySQL, Tomcat, AWS, and Linux (Ubuntu)

## RECENT PROJECTS

**YTRecap** Github                                                                                  *March 2023*
*YTRecap.org* is a web-app built using Python Flask that can summarize any youtube video by parsing the video for it's closed captions and passing them to an NLP large language model

**GradeMyAid** Github                                                                             *December 2022*
*GradeMyAid.com* is a financial aid tool built using Next.js and the CollegeScorecardAPI that offers the ability a to compare financial aid packages from varying universities in order to understand which FAFSA offers are the most appealing

**CryptoTracker** Github                                                                             *October 2022*
*crypto-tracker-nicktill.vercel.app* is a cryptocurrency tracker built with Next/React.js and the CoinGeckoAPI to retrieve the latest crypto market data with options to sort by market cap, price change and volume

## EDUCATION

**University of Pittsburgh**                                                                            *June 2023*
**B.S Computer Science**                                                                            *Pittsburgh, PA*
- **Coursework***: Algorithmic Implementation, Data Structures, Discrete Structures, Assembly Language, Intermediate Programming, Computer Organization, Software Engineering, Web-Development, Artificial Intelligence, Systems Software, Formal Methods in Computing, Applied Statistics, Operating System, Database Management Systems, Quality Assurance, Big Ideas in Computing*