

# PENG SHA

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## EDUCATION

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**Southeast University**, Postgraduate 09/2020 – Present

- Major: Control science and Engineering, School of Automation. Anticipated graduation date: 06/2023

**Beijing University of Chemical Technology**, Bachelor's Degree 09/2016 – 06/2020

- Major: Automation, Excellent engineer class, School of information science and technology.
- GPA: 3.67/4.33 (Ranked 7 out of 199) Exempted to Southeast University for master's degree in engineering

## WORK EXPERIENCE

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**Baidu Inc.**, Beijing, China 06/2022 – Present

(Search Product Development Department) R&D Intern

- Participate in the research and design of page performance optimization in Baidu search results page, learn and implement common front-end performance optimization metrics, and design and implement with actual projects.
- Responsible for the research and development of Ajax unbundled performance monitoring for Baidu search result pages, and reporting performance data of requests.
- Learn more about the principles of the TypeScript type system and type checking, and apply them in business practice.
- **Technology Stack**: TypeScript.

**ByteDance Inc.**, Shanghai, China 07/2021 – 09/2021

(Lark Video Conference Room) R&D Intern

- Responsible for Lark Video Conference Admin Platform R&D work related to vertical business, using React.js, Mobx and other tools for development and maintenance.
- Participated in R&D work of key accounts, involving multi-terminal cooperative development and multi-terminal joint debugging, including joint debugging of front and back ends and desktop ends.
- Learned a lot about the practical experience of enterprise development and refactor some business code.
- **Technology Stack**: React.js, TypeScript, Mobx.

## PORTFOLIOS

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**ByteDance Front-end Training Camp** 11/2020 – 12/2020

2048 game for multi users

- As the team leader of the project, responsible for the back-end development and deployment.
- Using Express, Socket.IO and MongoDB to develop the back-end service.
- Using Github Actions and Docker to implement the CI/CD pipeline.
- Learn React.js during the project and master the basic usage.
- **Technology Stack**: React.js, Express, TypeScript, Socket.IO, Docker.

**notion-blog** <https://github.com/shapeng1998/notion-blog>

A notion based blog template

- Using Notion as a blog CMS to write articles, support dark mode and have friendly SEO.
- Build the blog based on SSG and ISR features of Next.js with 95-100% Lighthouse scores
- Customize the blog's style with Tailwind CSS.
- Using react-notion-x to render the blog content and Prism to highlight the code blocks.
- **Technology Stack**: Next.js, Tailwind CSS, TypeScript.

## RESEARCH & ACADEMIC EXPERIENCE

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**Institute of Automation, Chinese Academy of Sciences**, Beijing, China 04/2019 – 06/2020

(State Key Laboratory of Complex System Management and Control) Research Intern

- Participate in the development of background management system for edge computing.
- The front-end is based on Vue.js, and the back-end is developed based on Flask and PostgreSQL
- Building images for multi-architecture platforms using Docker Buildx.

## SKILLS

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- **Programming Language: multilingual** (not limited to any specific language), and experienced in TypeScript, understanding TypeScript type system, comfortable with Python/Java/C++
- **Developing Tool:** familiar with Linux-based programming, have experience with team tools like Git, etc.

## MISCELLANEOUS

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- **Selected Courses:** OS, Network, Algorithm.
- **Language Level:** English CET-6: 618 points, able to conduct daily conversation and essay reading.
- **First Prize in Beijing**, National College Student Electronic Design Competition 2019