

# Nicholas Berridge-Argent

Software Engineer \* <https://nickba.dev/> \* [Email me @ my domain] \* [Phone number redacted]

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## Experience

**Atlassian — Software Engineer** \* Jan 2022 – Present

Working in the Ecosystem Platform department building systems for second and third party developers to extend Atlassian products

Jan 2022 – Jun 2023 \* Worked on operational and observability tools for third party developers on Atlassian's Forge platform for Atlassian-hosted third party apps

Jun 2023 – Present \* Working on FedRAMP compliance and maintenance of Atlassian's Connect framework for external third party apps

*Skills:* TypeScript, Java, React, GraphQL, Spring, Prometheus, Kinesis, DynamoDB, S3, Lambda, microservices architectures, cloud services, observability

**Atlassian — Intern Developer** \* Nov 2020 – Feb 2021

Worked in the Datacentre Cross-Product department implementing a prototype frontend for a cross-product plugin for Atlassian's datacentre products

*Skills:* TypeScript, Java, React, Spring, Cypress, Jest

**UNSW Computing — Casual Academic** \* Jun 2019 – May 2021

Tutor for COMP2041 Software Construction and COMP3331 Computer Networks

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## Education

**B Software Engineering (Honours) — UNSW Sydney** \* Feb 2018 – Dec 2021

*Grade:* First Class Honours \* High Distinction (85) average

*Thesis:* Secure Boot and TPM Attestation for seL4-Based Systems

Worked under the supervision of UNSW's Trustworthy Systems research group to investigate approaches to secure boot and TPM attestation on seL4-based systems

Designed and implemented a prototype for a firmware TPM based attestation setup on an ARM system running seL4

*Awards:* CSE Undergraduate Performance Prize Year 1, 10<sup>th</sup> Place (2018), UNSW Engineering Dean's Honours List (Highly Commended) (2019), UNSW Engineering Dean's Award (2020)

*Skills:* C / C++, JavaScript / TypeScript, Python, Java, Shell / BASH, HTML, CSS, PostgreSQL, Git, operating systems, distributed systems, networks, databases, algorithm design, program correctness, object-oriented design, functional programming, web development

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```
d(){puts("Mixed clause");exit(1);}typedef unsigned long u,s,v,c;u*p(n){int f=1,t=0,i=0;u*r=0;while(1){char c=getchar();if(c==-'1' || c=='0' || c==41)break;if((c>=65&&c<=90) || (c>=97&&c<=122)){c=c>=97?c-97:c-65;s|=1<<c;if(f&&n){t=4;r=c+1;break;}else{r=realloc(r,++i*8);r[i-1]=c+1;}}switch(c){case 40:if(!n || f){r=realloc(r,++i*8);r[i-1]=(u)p(0);}break;case 126:r=realloc(r,++i*8);r[i-1]=(u)p(1);break;case 38:if(t&&5)d();t=2;break;case 47:if(t&&6)d();t=1;break;case 45:if(t&&4)r=n?(u*)((u)r)|(1<<5)):r;else{r=realloc(r,++i*8);r[i-1]=0;r=n?(u*)((u)r)|2):r;return r;}return r;}e(u*t,a){if((u)t<=58){return((a>>(((u)t)&31)-1))+((u)t)&3291:0)&1;}}else{int o=!(((u)t)&1);for(u*x=(u*)((u)t)&~3LU);x;n++){o=((u)t&1)?o||e((u*x)n,a):o&&e((u*x)n,a);}return((u)t&2?o:o;}}main(){u*t=p(0);v=1,c=s;while(c){v++;c>>=1;}for(int a=0,l=-0;a(1<v);l=a,a++){if(((a^l)&s)&&e(t,a)){puts("Sat with:");for(int i=0;i<26;i++){if(s&(1<<i))printf("%c = %c" "\n",i+97,(a>>i)&1?84:70);}return 0;}}puts("Unsat");} // ----- clang -Wno-everything -o prog prog.c; echo '(a/b)&~(c&d)' | ./prog -----
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